


Soybean Variety Test Results in Illinois - 1990



*Performance
Information Provided by*

*Dept. of Agronomy
College of Agriculture
at the
University of Illinois*

AG 2055



Digitized by the Internet Archive
in 2011 with funding from
University of Illinois Urbana-Champaign

<http://www.archive.org/details/soybeanvarietyte1990univ>

CONTENTS

TEST PROGRAM	2
PERFORMANCE DATA	2
SUGGESTIONS FOR COMPARING ENTRIES	2
1990 TEST FIELDS	3
1990 GROWING SEASON COMMENTS	4
SOURCES OF SEED	4
1990 ENTRIES	6
RESULTS OF VARIETY TESTS	12
Regional Trials	
Region I: DeKalb and Dwight	12
Region II: Monmouth and Urbana	14
Region III: Monmouth and Perry	18
Region IV: Urbana and Perry	20
Region V: Belleville and Brownstown	23
Region IV: Carbondale and Dixon Springs	25
7-inch Row Trials	
Dwight	26
Urbana	28
Brownstown	29
30-inch Row Trials	
Kilbourne (Irrigated)	30

This circular was prepared by R. W. Esgar, Associate Agronomist; G. L. Ross, Agronomist; K. A. Kelley, Assistant Agronomist; S. G. Carmer, Professor of Biometry; G. E. Pepper, Extension Agronomist, C. A. Smyth, Computer and Statistics Research Specialist; and L. D. Toalson, Graphic Artist.

PERFORMANCE OF COMMERCIAL SOYBEANS IN ILLINOIS

THE UNIVERSITY OF ILLINOIS commercial soybean testing program was started in 1969 as a result of requests by seedsmen that their private varieties be tested. The number of individuals participating has increased each year since the start of the program.

The purpose of this commercial soybean testing program is to provide unbiased, objective, and accurate testing of all varieties entered. The tests are conducted on as uniform a soil as is available in the testing area. Small plots are used to reduce the chance of soil and climatic variations occurring between one variety plot and another.

The results of these tests should help you judge the merits of varieties in comparison with other private and public varieties. Because your soils and management may differ from those of the test location, you may wish to plant variety strips of the higher-performing varieties on your farm. The results printed in this circular should help you decide which varieties to try.

TEST PROGRAM

Selection of entries. Soybean producers in Illinois and surrounding states were invited to enter varieties, brands, or blends in the 1990 Illinois soybean performance trials. Entrants were required to enter all nonirrigated, 30-inch-row-width trials on a regional basis (entry in a minimum of two locations required). To help finance the testing program, a fee of \$60 (\$75 for irrigated trials) per location was charged for each entry entered by the seed producer. Most of these varieties, brands, or blends are commercially available, but some experimental varieties were also entered.

A total of 2,046 entries were tested in 1990.

Location of tests. In 1990, tests were conducted at 10 locations in the state (see map on page 3). These sites represent the major soils and maturity zones of the state.

Nonirrigated, 30-inch-row-width trials were conducted on a regional basis. The regions are as follows:

- Regional I DeKalb and Dwight
- Regional II Monmouth and Urbana
- Regional III Monmouth and Perry
- Regional IV Urbana and Perry
- Regional V Brownstown and Belleville
- Regional VI Carbondale and Dixon Springs

Seven-inch-row-width trials were conducted at Dwight, Urbana, and Brownstown. An irrigated trial was conducted in 30-inch rows at Kilbourne.

Field plot design. Entries of each test were replicated three times in a randomized complete block or lattice design. The 30-inch-row trial plots consisted of four rows, each 20.5 feet long. The center two rows of each plot were harvested to measure yield. The 7-inch-row trial plots consisted of eight rows, each 20.5 feet long. The center six rows were harvested to measure yield. All plots were end-trimmed prior to harvest.

Fertility and weed control. All test locations were at a high level of fertility. Herbicides were used at all test locations for weed control. All plots were also weeded by hand.

Method of planting and harvesting. The 30-inch-row variety trials were planted with a modified bean planter. A custom-built, cone type, narrow-row drill was used to plant the 7-inch trials. Harvesting was done with a small-plot combine. No allowances were made for beans that may have been lost as a result of combining or shattering.

PERFORMANCE DATA

Yield. Soybean yield was measured in bushels (60 pounds) per acre at a moisture content of 12.5 percent. An electronic moisture monitor was used on the combine for all moisture readings.

Maturity. Maturity was stated as the date when approximately 95 percent of the pods were ripe.

Lodging. The amount of lodging was rated at harvest time. The following scale was used:

- 1 - Almost all plants erect
- 2 - All plants leaning slightly or a few plants down
- 3 - All plants leaning moderately (45°), or 25 to 50 percent of the plants down
- 4 - All plants leaning considerably, or 50 to 80 percent of the plants down
- 5 - Almost all plants down

Height. Height was measured shortly before harvest as the average length of plants from the ground to the tip of the main stem.

Shattering. The percentage of open pods was estimated at harvest time. The following scale was used:

- 1 - No shattering
- 2 - 1 to 10% of pods open
- 3 - 10 to 25% of pods open
- 4 - 25 to 50% of pods open
- 5 - Over 50% of pods open

SUGGESTIONS FOR COMPARING ENTRIES

It is impossible to obtain an exact measure of performance when conducting any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions may produce variability. Results of repeated tests are more reliable than those of a single year or a single-strip test. When one variety consistently outyields another at several test locations and over several years of testing, the chances are good that this difference is real and should be considered in selecting a variety. However, yield is not the only indicator. You should also consider maturity, lodging, and germination.

As an aid in comparing soybean varieties, brands, and blends within a single trial, certain statistical tests have been devised. One of these tests, the least significant difference (L.S.D.), when used in the manner suggested by Carmer and Swanson¹ is quite simple to apply and is more appropriate than most other tests. When two entries are compared and the difference between them is greater than the tabulated L.S.D. value, the

entries are judged to be "significantly different."

When the observed mean of entry A is larger than that of entry B and the difference between them is found to be significant, then either (1) the mean of entry A really is larger than that of entry B, and a correct decision has been made regarding the means; (2) the means of entries A and B are really equal, and a Type I statistical error has been made (that is, the means were declared to be unequal when they were actually equal); or (3) the mean of entry B is really larger than that of entry A, and a reverse decision or Type II statistical error has been made (that is, the mean of entry A was declared to be greater than that of entry B, when the reverse is true).

When no significant difference is found between two entries, then either (1) the means are really equal and a correct decision has been made; or (2) the means are really different, and a Type II statistical error has been made (that is, the means were declared to be equal when they really are different). In a study of the frequencies of occurrence of these three types of statistical errors and their relative seriousness, Carmer² found strong arguments for an optimal significance level in the range $\alpha = 0.20$ to 0.40 , where α is the Type I statistical error rate for comparisons between means that are really equal. Herein, values of $\alpha = 0.10$ and 0.30 are used in computing the L.S.D. 10- and 30-percent levels shown in the tables.

To make the best use of the information presented in this circular and to avoid any misunderstanding or misrepresentation of it, the reader should consider an additional caution about comparing entries. Readers who compare entries in different trials or row spacings should be extremely careful, because no statistical tests are presented for that purpose. Readers should note that the difference between a single entry's performance at one location or row spacing and its performance at another is caused primarily by environmental effects and random variability. Furthermore, the difference between the performance of entry A in one trial or row spacing and the performance of entry B in another trial or row spacing is the result not only of environmental effects and random variability, but of genetic effects as well.

¹Carmer, S.G. and M.R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." *Journal of American Statistical Association* 68:66-74. 1973.

²Carmer, S.G. "Optimal Significance Levels for Application of the Least Significant Difference in Crop Performance Trials." *Crop Science* 16:95-99, 1976.

1990 TEST FIELDS

DeKalb

Location: University of Illinois, Northern Illinois Research Center, southwest of DeKalb.

Soil type: Flanagan silt loam (dark brown, adequately drained, highly fertile).

Cooperators: Dave Lindgren, farm foreman; Lyle Paul, research director.

Planting date: April 30.

Harvest dates: October 14 & 16.



1990 TEST FIELDS (con't.)

Dwight

Location: Livingston County.

Soil type: Elliott silty clay loam.

Cooperator: Larry Zabel.

Planting date: May 1.

Harvest dates: October 2 & 5.

Monmouth

Location: University of Illinois, Northwestern Illinois Agricultural Research and Demonstration Center, northwest of Monmouth.

Soil type: Muscatine silt loam.

Cooperator: Mike Mainz, area agronomist and field superintendent.

Planting date: May 2.

Harvest dates: October 1 & 12.

Kilbourne (Irrigated)

Location: University of Illinois, Illinois River Valley Sand Field, 10 miles west of Kilbourne, Mason County, central Illinois.

Soil type: Plainfield sand.

Cooperator: Stan Sipp, agronomist.

Planting date: May 8.

Harvest date: October 4.

Irrigation: A total of 7.50 inches of water was applied during the growing season to supplement natural rainfall.

Urbana

Location: University of Illinois Agronomy South Farm, Champaign County, east central Illinois.

Soil type: Flanagan silt loam (dark brown, adequately drained).

Cooperators: M.G. Oldham, farm manager; Mike Plotner, farm foreman.

Planting dates: May 7 & 8.

Harvest dates: September 27 and October 3, 6, & 17.

1990 TEST FIELDS (con't.)

Perry

Location: Orr Research Center, near Perry, Pike County, south central Illinois.

Soil type: Muscatine silt loam (moderately poorly drained).

Cooperators: Glenn Raines, research director; Mike Vose, farm foreman.

Planting date: May 2.

Harvest dates: September 24 and October 15.

Brownstown

Location: University of Illinois Brownstown Experimental Field, Fayette County, south central Illinois.

Soil type: Cisne silt loam (poorly drained, gray prairie with a well-developed claypan).

Cooperators: Jim Carter, farm foreman; John Sawyer, research director.

Planting date: June 6.

Harvest dates: October 22 & 23.

Belleville

Location: Southern Illinois University Research Center, east of Belleville, St. Clair County.

Soil type: Ebbert silt loam.

Cooperators: Ron Krausz, researcher; George Kapusta, research director.

Planting date: June 15.

Harvest date: October 19.

Carbondale

Location: Southern Illinois University Agronomy Research Center, extreme southern Illinois.

Soil type: Weir silt loam (shallow, silty loam over claypan).

Cooperators: Paul Pinnon, field manager; George Kapusta, agronomist.

Planting date: June 15.

Harvest dates: October 23 & 24 and November 7.

Dixon Springs

Location: University of Illinois Dixon Springs Agricultural Center, Pope County, extreme southern Illinois.

Soil type: Belknap silt loam (light-colored, moderately well-drained, medium-textured bottomland).

Cooperators: Steve Ebelhar, research director; Ron Hines, research specialist.

Planting date: June 6.

Harvest dates: October 24 & 25, and November 1.

1990 GROWING SEASON COMMENTS

Soybeans were planted in the northern locations by May 8th. The four southern locations were planted on June 6th and 15th.

Cool and wet weather in the north slowed soybean development. Some disease pressure was observed during the growing season, the most severe being Brown Stem Rot at DeKalb. In general, southern locations yielded lower than northern ones due to late planting. Drought stress at Brownstown reduced yields further, while deer feeding at Carbondale contributed to lower yields.

Resulting yields in the northern locations were very good. With the exception of Dixon Springs, southern locations were lower yielding.

GROWING SEASON RAINFALL, 1990

Location	May	June	July	Aug.	Sept.
DeKalb	5.25	5.65	4.19	4.61	1.23
Dwight	5.83	6.90	4.69	4.95	0.65
Monmouth	6.15	8.37	6.48	3.37	1.04
Kilbourne	6.82	11.81	6.99	4.89	1.99
(By irrigation)	0.00	0.00	1.50	4.50	1.50
Urbana	9.06	8.42	3.98	2.51	1.36
Perry	7.45	5.43	5.41	2.12	2.31
Brownstown	10.00	4.76	1.83	1.85	1.97
Belleville	11.80	3.10	1.10	1.70	1.20
Carbondale	10.49	2.18	5.70	4.20	1.69
Dixon Springs	11.11	1.73	2.52	4.13	3.48

SOURCES OF SEED

Agrigene, Agrigene Seed Research, 11331 Aurora Ave., Des Moines, IA 50322

Agrinetics, Agrinetics, Inc., Box 151, Naperville, IL 60566
Ainsworth, Ainsworth Seed Co., R.R. 1, Box 153, Mason City, IL 62664

Asgrow, Asgrow Seed Co., P.O. Box 7570, Des Moines, IA 50322

Atlas S-Brand, Atlas S-Brand Seed Co., R.R. 1, Box 149, Harlan, IA 51537

Baird, Baird Seed Co., R.R. 1, Box 21, Williamsfield, IL 61489

Baker, Baker Seed Co., 610 W. Seminary, West Salem, IL 62476

Belleville, Belleville Seed House, R.R. 5, Box 209, Belleville, IL 62220

Bergmann-Taylor, Bergmann-Taylor Seeds, Inc., P. O. Box 317, St. Jacob, IL 62281

Biddle, Biddle Seeds, Inc., R.R. 1, Box 77, Remington, IN 47977

Brown, Brown Seeds, Rt. 1, Box 358 A, Neoga, IL 62447

Callahan, Callahan Enterprises, Inc., 1122 E. 116th St., Westfield, IN 46074

Cargill, Cargill, Inc., P.O. Box 5602 CMD. Section # 20, Minneapolis, MN 55440

CFS, Custom Farm Seed, P.O. Box 160, Momence, IL 60954
Challenger, Challenger Seed Co., P. O. Box 747, Cedar Falls, IA 50613

Ciba-Geigy, Ciba-Geigy Seed Division, 3615 S. Hilton Ln., Peoria, IL 61607

Dairyland, Dairyland Seed Co., Inc., P. O. Box 958, West Bend, WI 53095

DeKalb, DeKalb Plant Genetics, 3100 Sycamore Road, DeKalb, IL 60115

Deraedt, Deraedt Seeds, P.O. Box 115, 10N971 Tower Rd., Plato Center, IL 60170

Funk, Ed. J. Funk & Sons, Inc., P.O. Box 518, Carroll, IA 51401
 Furrow, Furrow Seed Co., Rt. 1, 51 S., Box 227, El Paso, IL 61738
 Ging, Ging & Co., P.O. Box 248, Farina, IL 62838
 Golden Harvest, Garwood Seed Co., R.R. 1, Box 20, Stonington, IL 62567
 Golden Harvest, Golden Seed Co., 27420 137th Ave. N., Cordova, IL 61242
 Golden Harvest, Sommer Bros. Seed Co., P. O. Box 248, Pekin, IL 61554
 Golden Harvest, Thorp Seed Co., R.R. 3, Box 257, Clinton, IL 61727
 Greater American Seed, Tri-County Stockdale Co., 25512 Black Rd., Joliet, IL 60435
 Great Lakes, Great Lakes Hybrids, 9797 W. M-21, Ovid, MI 48866
 Griffith, Griffith Seed Co., Box 38, 7th & Theodore St., McNabb, IL 61335
 Growmark, Growmark Inc., 1701 Towanda Ave., Box 2500, Bloomington, IL 61702
 Henkel, Henkel Seeds, Inc., 107 Cedar Grove Rd., Mendota, IL 61342
 Hoblit, Hoblit Seed Co., P.O. Box 487, Atlanta, IL 61723
 HyPerformer, HyPerformer Seed Co., 5100 Poplar, Suite 3200, Memphis, TN 38137
 I.F.S.I., Illinois Foundation Seeds, Inc., P.O. Box 722, Champaign, IL 61824
 Intra-America, Intra-America Seed Services, Inc., P.O. Box 295, Hwy. 6 W., Geneseo, IL 61254
 J & L Research, J & L Research, R.R. 2, Macomb, IL 61455
 Jacob Hartz, Jacob Hartz Seed Co., Inc., P.O. Box 946, N. Park Ave., Stuttgart, AR 72160
 Jacques, Jacques Seed Co., Hwy. 10-E, Lincoln, IL 61704
 J.M. Schultz, J.M. Schultz Seed Co., 105 Pine St., Dieterich, IL 62424
 Kaiser Estech, Kaiser Estech, 2007 W. Hwy. 50, Fairview Heights, IL 62208
 Kaltenberg, Kaltenberg Seed Farms, Inc., 5506 Hwy. 19, Box 278, Waunakee, WI 53597
 Kitchen, Kitchen Seed Co., Inc., P.O. Box 286, Arthur, IL 61911
 Kruger, Kruger Seed Co., P.O. Box A, Hwy. 20 E., Dike, IA 50624
 Lewis, Lewis Hybrids, Inc., P. O. Box 38, Ursa, IL 62376
 Lynks, Lynks Seeds, P. O. Box 637, Marshalltown, IA 50158
 McAllister, McAllister Seed Co., Old Hwy. 218 N., Box 28, Mt. Pleasant, IA 52641
 Merschman, Merschman Seeds, 103 Ave. D, West Point, IA 52656
 Midwest Oilseeds, Midwest Oilseeds, Inc., R.R. 3, Box 204, Adel, IA 50003
 Miles, Miles Seed Co., 2760 Keller Rd., Owensboro, KY 42301
 Muirhead, Muirhead Farms, 42 W. 797 Rohrson Rd., Plato Center, IL 60170
 NobleBear, NobleBear, Inc., 523 S. Sangamon, Box 529, Gibson City, IL 60936
 Northrup King, Northrup King Co., R.R. 2, Box 200, Highland, IL 62249

Northrup King, Northrup King Co., 1324 E. Empire St., Bloomington, IL 61701
 Pioneer, Pioneer Hi-Bred International, Inc., 1000 West Jefferson St., Tipton, IN 46072
 Princeton, Princeton Farms, P.O. Box 319, Princeton, IN 47670
 ProfiSeed, ProfiSeed, Inc., Rt. 2, Hampton, IA 50441
 Public Varieties, Illinois Foundation Seeds, Inc., P. O. Box 722, Champaign, IL 61820
 Ridgway, Ridgway Seed Co., P. O. Box 212, Ridgway, IL 62979
 Seedex, Seedex, Inc., P. O. Box 231, Sheridan, IN 46069
 Seedmakers, Seedmakers, Inc., P. O. Box 84, Sidney, IL 61877
 Shissler, Shissler Seed Co., R.R. 3, Elmwood, IL 61529
 Sieben, Sieben Hybrids, Inc., Hwy. 82 N., Geneseo, IL 61254
 Southern States, Southern States Coop., P.O. Box 26234, Richmond, VA 23260
 Sparta, Sparta Seed Co., Rt. 5, Box 32A, Galesburg, IL 61401
 Stewart, Stewart Hybrids Inc., R.R. 1, Box 8, Princeville, IL 61559
 Stine, Stine Seed Farm, Inc., R.R. 3, Box 204, Adcl, IA 50003
 Stone, Stone Seed Farms, Inc., R.R. 2, Pleasant Plains, IL 62677
 Terra, Terra International, Inc., 950 S. Broadway, Lima, OH 45804
 Trisler, Trisler Seed Farms, Inc., R.R. 1, Box 153, Fairmount, IL 61841
 Twin States, Twin States Seed Co., R.R. 3, Box 244, Hoopeston, IL 60942
 Uphoff, Uphoff Seeds, Box 647, W. Rt. 316, Charleston, IL 61920
 Voris, Voris Seeds, Inc., P.O. Box 457, Windfall, IN 46076
 Wildy Seed, Wildy Seed, Inc., R.R. 1, Box 35, New Athens, IN 62264-9610
 Wilken, Wilken Seed Grains, Inc., P.O. Box 770, Pontiac, IL 61764
 Wilson, Wilson Hybrids, Inc., P.O. Box 391, Harlan, IA 51537

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

AGRIGENE

AG228 (X)(V)(R) II 1
 AG134 (X)(V)(R) III 2,3,4
 AG138 (X)(V)(R) III 2,3,4

AGRINETICS

AGRISOY 208 (V)(R)(P) . II 1
 AGRISOY 210 (V)(R)(P) . II 1
 AGRISOY 222 (V)(R)(P) . II 1
 AGRISOY 235 (V)(R)(P) . II 1
 AGRISOY 240 (V)(R)(P) . II 1
 AGRISOY 155 (V)(R)(P) . I 1

AINSWORTH

2A-66 (V)(R) II 4
 2A-88 (V)(R) II 2,3,4
 DISCOVERY (V)(R) II 3
 3A-21 (V)(R) III 4
 3A-55 (V)(R) III 2
 VANGUARD (V)(R) III 4
 TITAN (V)(R) III 3

ASGROW

A1929 (V)(R)(P) I 1,D
 A2234 (V)(R)(P) II 1,D
 A2396 (V)(R)(P) II 1,2,D
 A2543 (V)(R)(P) II 1,D
 A2872 (V)(R)(P) II 1,2,U
 A3205 (V)(R)(P) III 2,3,4
 A3322 (V)(R)(P) III 2,3,4,U
 A3415 (V)(R)(P) III 4,5
 A3427 (V)(R)(P) III 2,3,4
 A3733 (V)(R)(P) III 4,5,B
 A3935 (V)(R)(P) III 4,5
 A4009 (V)(R)(P) IV 5,6
 A4393 (V)(R)(P) IV 5,6
 A4595 (V)(R)(P) IV 5,6
 A4715 (V)(R)(P) IV 5,6
 A5403 (V)(R)(P) V 6

ATLAS S-BRAND

A251 (V)(R) II 1,D
 S46H (V)(R) II 1,D
 X241 (V)(R) II 1
 S270 (V)(R) II 1,D
 A-280 (X)(V)(R) II 2,3,4
 S280 (V)(R) II 2,3,4,U
 A-370 (X)(V)(R) III 2,3,4,5
 S370 (V)(R) III 2,3,4,U
 S57A (V)(R) III 2,3,4,5,U,B
 S62+ (V)(R) III 2,3,4,5,B
 S67 (V)(R) III 5
 S390 (V)(R) III 5

BAIRD

B 2290 (V)(R) II 2
 B 3292 (V)(E) III 2

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

BAIRD (con't.)

B 3392 (V)(E) III 2
 B 3491 CN (V)(R) III 2
 B 3082 (V)(R) III 2
 B 3090 (V)(R) II 2

BAKER

3900 (V)(R) III 5
 3905 (V)(R) III 5

BELLEVILLE

BSH 420 (X)(V)(R) IV 5,B
 BSH 440 (X)(V)(R) IV 5

BERGMANN-TAYLOR

BT 371 (V)(R) III 5,B
 BT 399C (V)(R) III 5,B
 BT 379 (V)(R) III 5,B
 BT 401C (V)(R) IV 5,6,B
 BT 409CB (B)(R) IV 5,6,B
 BT 471 (V)(R) IV 5,6
 BT 500C (V)(R) IV 5,6

BIDDLE

220 (X)(V)(R) III 2
 312 (X)(V)(R) III 2

BROWN

ARISE 360 (X)(V)(R) . . . III 4
 ARISE 341 (X)(V)(E) . . . III 5,U
 ARISE 400 (X)(V)(R) . . . IV B

CALLAHAN

9222 (B)(R) II 1
 8252 (V)(R) II 1,D,U
 9270 (V)(R) II 1,4,D,U
 1288X (V)(E) II 1,4,D,U
 1290X (V)(E) II 1
 9320N (V)(R) III 1,4
 1330X (V)(E) III 1,4,U
 9350 (V)(R) III 1,4,U
 7300 (V)(R) III 4
 1365X (V)(E) III 4,5,U
 7390 (V)(R) III 4,5
 1380NX (V)(E) III 5
 1390NX (B)(E) III 5
 1410X (V)(E) IV 5,6
 8464 (V)(R) IV 5,6
 9480 (V)(R) IV 5,6
 9455N (V)(R) IV 6
 1490X (V)(E) IV 6
 7510N (V)(R) IV 6

CARGILL

277 (V)(R)(P) II 1
 325 (V)(R)(P) III 4
 345 (V)(R)(P) III 5
 397 (V)(R)(P) III 6
 437 (V)(R)(P) IV 6

*See page 11 for key to trial locations

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

CHALLENGER

CSB 667 (B)(R)(P) II 1,2,D
 CSV 267 (V)(R)(P) II 1,2,3,4,D,U
 CSV 285 (V)(R)(P) II 1,2
 CSV 2200 (V)(R)(P) II 1
 CSB 640 (B)(R)(P) II 1
 CSV 29 (V)(R)(P) II 2,U
 CSV 3500 (V)(R)(P) III 1,2,3,4,U,B
 CSV 3800 (V)(R)(P) III 2,3,4,5,B
 CSV 3200 (V)(R)(P) III 1,2
 CSV 3600 (V)(R)(P) III 2,3,4,5,U,B
 CSV 3150 (V)(R)(P) III 1,2,3,4,U

CIBA-GEIGY (FUNK's G)

G 3258 (X)(V)(R)(C) III 1,2
 G 3344 (X)(V)(R)(C) III 2,3,4,5,6
 G 3365 (X)(V)(R)(C) III 2,3,4
 G 3375 (X)(V)(R)(C) III 2,3,4,5,6
 G 3388 (X)(V)(R)(C) III 4,5,6
 G 3385 (X)(V)(R)(C) III 4,5,6

C.F.S.

CFS 231 (X)(V)(R) II 1,2,D,U
 CFS 315 (X)(V)(R) III 1,2,U
 CFS 244 (X)(V)(R) II 1,2,U
 CFS 316 (X)(V)(R) III 2,U

DAIRYLAND

DSR-247 (V)(R)(C) II 1,D
 DSR-262 (V)(R)(C) II 1,2,D,U
 DSR-270 (V)(R)(C) II 1,2,D
 DSR-290 (V)(R)(C) II 2,U
 DSR-304 (V)(R)(C) III 2,U
 DSR-333 (V)(R)(C) III 2,U
 DSR-317 (V)(R)(C) III 2,U
 DSR-373 (V)(R)(C) III 2,U
 DST-3110 (V)(E) III 2
 DST-3112 (V)(E) III 2
 DST-3113 (V)(E) III 2

DEKALB

CX366 (V)(R) III 2,3,4
 CX259 (V)(R) II 1,2
 CX298 (V)(R) II 1,2
 CX329 (V)(R) III 1,2
 CX415 (V)(R) IV 5,6
 CX458 (V)(R) IV 5,6
 CX345 (V)(R) III 2,U
 CX283 (V)(R) II 1
 CX264 (V)(R) II 1

DERAEDT

1860 (X)(V)(R) I 1,D
 2155 (X)(V)(R) II 1,D

ED J FUNK & SONS

SCD D210 (V)(R) II 1
 SCD TC204A (V)(R) II 1

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

EDJ FUNK & SONS (con't.)

SCD D285 (V)(R) II 1,2,3,4
 SCD D300 (V)(R) III 1,2,3,4
 SC SC291 (V)(R) II 1,2,3,4
 AM. CHAMPION (V)(R) III 1,2,3,4
 SCD D301 (V)(R) III 2,3,4,5
 SCD D305 (V)(R) III 2,3,4,5
 AM. PILGRIM (V)(R) III 2,3,4
 AM. SPIRIT (V)(R) III 2,3,4,5
 AM. CONQUEST (V)(R) III 5
 SC SC410 (V)(R) IV 5
 AM. JACKSON II (V)(R) IV 5

FURROW

ST-2703 (V)(R)(P) II 2
 ST-2280 (V)(R)(P) II 2
 ST-2220 (V)(R)(P) II 2

GING

GN-3100 (V)(R)(P) III 5
 GN-4110 (V)(R)(P) IV 5

GOLDEN HARVEST

H-1260 (X)(V)(R) II 1,2,3,4
 H-1278 (X)(V)(R) II 1,2,3,4
 H-1285 (X)(V)(R) II 1,2,3,4
 H-1303 (X)(V)(R) III 1,2,3,4
 X-256 (X)(V)(E) II 2,3,4,D
 X-299 (X)(V)(E) II 2,3,4
 H-1358 (X)(V)(R) III 2,3,4,D
 H-1289 (X)(V)(R) II D
 X-252 (X)(V)(E) II 2,3,4
 H-1308 (X)(V)(R) III 2,3,4
 H-1355 (X)(V)(R) III 2,3,4

GREATER AMERICAN

GA 2290 (V)(R) II 1,D
 PINTO II (V)(R) II 1,2
 MUSTANG 89 (V)(R) II 1
 GA 3089 (V)(R) III 2
 COLT 3 (V)(R) II 1

GREAT LAKES

GL 2291 (V)(R) II 1
 GL 2616 (V)(R) II 1,2,3,4
 GL 2868 (V)(R) II 1,2,3,4
 GL 3202 (V)(R) III 1,2,3,4
 GL 3698 (V)(R) III 2,3,4
 GL 3788 (V)(R) III 2,3,4

GRIFFITH

PL 2010 (V)(R) II 1,2,3,4,D
 PL 3257X (V)(E) II 1,2,3,4,D
 PL 2015 (V)(R) II 1,2,3,4,D,U
 PL 8216X (V)(E) II 1,2,3,4,D,U
 PL 2100 (V)(R) II 1,2,3,4,D,U
 PL 3005 (V)(R) III 2,3,4,D,U
 PL 3140 (V)(R) III 2,3,4,D,U

*See page 11 for key to trial locations

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
BLEND (B) PROTECTED (P)
EXPERIMENTAL (E)
VARIETY (V) MATURITY TRIALS
RELEASED (R) GROUP ENTERED*

GRIFFITH (con't.)

PL 2250 (V)(E) III 2,3,4,D,U

GROWMARK

HS 2102 (X)(V)(R) II 1
HS 2455 (X)(V)(R)(P) . . . II 1
HS 2533 (X)(V)(R)(P) . . . II 1,2
HS 2512 (X)(V)(R) II 1,2
HS 266 (X)(V)(R)(P) II 1,2
HS 2821 (X)(V)(R)(P) . . . II 1,2
HS 3122 (X)(V)(R)(P) . . . III 2
HS 3131 (X)(V)(R)(P) . . . III 2,3,4
HS 3542 (X)(V)(R)(P) . . . III 2,3,4,5
HS 339 (X)(V)(R)(P) III 3,5
HS 3699 (X)(V)(R)(P) . . . III 3,5,6
HS 3833 (X)(V)(R)(P) . . . III 3,5,6
HS 3411 (X)(V)(R)(P) . . . III 2,3,4,5,K
HS 4103 (X)(V)(E) IV 5,6
HS 4602 (X)(V)(R) IV 5,6

HENKEL

SUPER SOY 510 (V)(R) . . II 1,D
SUPER SOY 515 (V)(R) . . II 1
SUPER SOY 520 (V)(R) . . II 1,D
SUPER SOY 522 (V)(R) . . II 1,D
SUPER SOY 524 (V)(R) . . II 1,D
SUPER SOY 525 (V)(R) . . II 1
SUPER SOY 650 (V)(R) . . II 1
SUPER SOY 670 (V)(R) . . II 1

HOBLIT

HB 360 (X)(V)(R) III 5
HB 370 (X)(V)(R) III 5
HB 282 (X)(V)(R) II 2,U
HB 281 (X)(V)(R) II 2

HYPERFORMER

360 (V)(R) III 5
388 (V)(R) III 5
HB90-332 (V)(E) III 5
HB90-391 (V)(E) III 5
HB89-88235 (V)(E) III 5
HB90-400 (V)(E) IV 5,6
HB90-472 (V)(E) IV 5,6
401 (V)(R) IV 5,6
HB90-501 (V)(E) V 6
HB90-531 (V)(E) V 6
HB89-132 (V)(E) V 6

I.F.S.I.

KUNITZ (V)(R) III 4,5,6

INTRA-AMERICA

I-01 (V)(E) I 1
III-01 (V)(E) III 3

J & L RESEARCH

3622 (V)(R)(P) III 2

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
BLEND (B) PROTECTED (P)
EXPERIMENTAL (E)
VARIETY (V) MATURITY TRIALS
RELEASED (R) GROUP ENTERED*

JACOB HARTZ

5164 (V)(R)(P) V 6
H5240 (V)(R)(C) V 6
H4464 (V)(R)(C) IV 6

JACQUES

J-245 (V)(R) II 1
J-285 (V)(R) II 2
J-335 (V)(R) III 2
J-357 (V)(R) III 4
J-396 (V)(R) III 4
J-442 (V)(R) IV 5
J-499 (V)(R) IV 6
EXP. 89393 (V)(R) III 4
EXP. 9043B (B)(E) IV 6

J.M.S.

JMS 2288 (V)(R) II 1,2,3,4
JMS EX2400 (V)(E) II 1,2,3,4,U
JMS 2690 (V)(R) II 1,2,3,4
JMS EX2700 (V)(E) II 1,2,3,4,U
JMS 2990 (V)(R) II 1,2,3,4
JMS 3290 (V)(R) III 2,3,4
JMS 3309 (V)(R) III 1,2,3,4,K
JMS 3609 (V)(R) III 2,3,4,5
JMS 3788 (V)(R) III 2,3,4,5
JMS EX3400 (V)(E) III 2,3,4,5,U
JMS 4109 (V)(R) IV 5,6
JMS EX4400 (V)(E) IV 5,6
JMS 4688 (V)(R) IV 5,6
JMS 5109 (V)(R) V 6

KAISER ESTECH

KE 258 (V)(R) II 2
KE 276 (V)(R) II 2
KE 298 (V)(R) III 2,K
KE 358 (V)(R) III 2,5,K
KE 389 (V)(R) III 2
KE 131425 (V)(E) III 2,K
KE 398 (V)(R) IV 5
KE 416 (V)(R) IV 5

KALTENBERG

KB 260 (V)(R)(CP) II 1
KB 270 (V)(R)(CP) II 1
KB 250 (V)(R)(CP) II 1
KB 308 (V)(R)(CP) III 1,D
KB 319 (V)(R)(CP) III 1,D

KITCHEN

KSC 375 (X)(V)(R) III 4
KSC 330C (X)(V)(R) III 4
KSC 385 (X)(V)(R) III 4

KRUGER

K2727 (X)(V)(E) II 1
DESOY 288 (X)(V)(E) . . . II 1
K2626 (X)(V)(R) II 1

*See page 11 for key to trial locations

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

KRUGER (con't.)

K2660 (X)(V)(E) II 1
 K2828 (X)(V)(R) II 2
 DESOY 311CN (X)(B)(E) . II 2
 K3333 (X)(V)(E) III 2
 K3838CN (X)(V)(E) III 2 /

LEWIS

LEWIS 282 (V)(R) II 1,2,3,4,U
 LEWIS 304 (V)(R) III 3
 LEWIS 326 (V)(R) III 2,3,4
 LEWIS 351 (V)(R) III 2,3,4
 LEWIS 367 (V)(R) III 2,3,4,U,K
 LEWIS 388 (V)(R) III 5

LYNKS

5245 (V)(R)(P) II 1,D
 5303 (V)(R)(P) III 2,3,4
 5376 (V)(R)(P) III 5

MCALLISTER

MASCO BARON III (V)(R) II 3
 MASCO SQUIRE (V)(R) . III 3
 MASCO OMEGA (V)(R) . III 3
 MASCO RECYSTER (V)(R) III 3
 MASCO DURANGO (V)(R) III 3

MERSCHMAN

VENUS (V)(R) I 1
 MARS (V)(R) I 1
 COMANCHE III (V)(R) . . II 1
 MOHEGAN (V)(R) II 1
 MUNSEE II (V)(R) II 1
 UTE (V)(R) II 1
 CHICKASAW II (V)(R) . . II 1,2,3,4
 CHEYENNE II (V)(R)(P) . II 1,2,3,4
 CHEROKEE VI (V)(R) . . . II 1
 MOHAWK (V)(R) II 1,2,3,4
 SAUK IV (B)(R) II 1,2,3,4
 SHAWNEE IV (V)(R) . . . II 1,2,3,4
 MOHAVE (V)(R) II 1,2,3,4,D,U
 SAUK III (B)(R) II 1,2,3,4
 HOOVER II (V)(R) III 2,3,4
 HARRISON (V)(R) III 2,3,4
 MADISON II (V)(R) III 2,3,4
 GARFIELD (V)(R) III 2,3,4
 KENNEDY III (V)(R) III 2,3,4
 FILLMORE II (V)(R) III 2,3,4
 TRUMAN II (V)(R)(P) . . . III 2,3,4
 TRUMAN III (V)(R) III 2,3,4
 WASHINGTON VI (V)(R) III 2,3,4,5
 ROOSEVELT (V)(R) III 2,3,4,5,6
 EISENHOWER II (V)(R) . . III 2,3,4,5
 BOSTON III (B)(R) IV 5
 MEMPHIS II (V)(R) IV 5
 ATLANTA II (V)(R) IV 5,6

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

MERSCHMAN (con't.)

DENVER III (B)(R) IV 5
 DALLAS (V)(R)(P) IV 5,6

M.W. OILSEEDS

2960 (X)(V)(R) II 1
 3110 (X)(V)(R) III 2,3,4
 3220 (X)(V)(R) III 2,3,4
 3090 (X)(V)(R) III 2,3,4,5
 3090E (X)(V)(R) III 2,3,4,5

MILES

ISAAC (V)(R)(P) III 6
 JACOB (V)(R)(P) IV 6
 GOLIATH (V)(R)(P) V 6
 SCX 001 (V)(E)(P) IV 6
 SCX 002 (V)(E)(P) IV 6

MUIRHEAD

MF 281 (V)(R) II 1,D
 MF 299 (V)(R) II 1,D
 MF 265 (V)(R) II 1,D
 MF 24 (V)(R) II 1,D

NOBLEBEAR

NB 2240 (V)(R) II 1,D
 NB 2780 (V)(R) II 1,4
 NB 2890 (V)(R) II 1,D,U
 NB 2905 (V)(R) II 1,4
 NB 3006 (V)(R) II 1,4,U
 NB 3250 (V)(R) III 4
 NB 3350 (V)(R) III 4,U
 NB 3636 CN (V)(R) III 5
 NB 3736 (V)(R) III 5
 NB 3750 (V)(R) III 4,5
 NB 3890 (V)(R) III 5,U

NORTHRUP KING

S19-90 (V)(R)(P) II 1
 S23-12 (V)(R)(P) II 1,D
 S25-15 (V)(E)(P) II 1
 S28-18 (V)(E)(P) II 1,2
 S29-39 (V)(E)(P) II 1,2
 S30-41 (V)(R)(P) III 1,2
 S31-33 (V)(R)(P) III K
 S34-19 (V)(R)(P) III 1,2
 S36-36 (V)(R)(P) III 2,3,4,K
 S42-30 (V)(R)(P) IV 4
 S42-40 (V)(R)(P) IV 4,5
 S44-77 (V)(R)(P) IV 5,6
 COKER 425 (V)(R)(CP) . . V 6
 COKER 6955 (V)(R)(CP) . V 6
 S48-84 (V)(R)(P) IV 5,6

PIONEER

9292 (V)(R)(P) II 1,2,3,4,D,U
 9202 (V)(R)(P) II 1,D
 9272 (V)(R)(P) II 1,2,3,4,D,U

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
BLEND (B) PROTECTED (P)
EXPERIMENTAL (E)
VARIETY (V) MATURITY TRIALS
RELEASED (R) GROUP ENTERED*

PIONEER (con't.)

9293 (V)(R)(P)	II	1,2,3,4,D,U
9302 (V)(R)(P)	III	1,2,3,4,D,U
9303 (V)(R)(P)	III	1,2,3,4,5,D,U,B
9241 (V)(R)(P)	II	1,D
9273 (V)(R)(P)	II	1,2,3,4,D,U
9341 (V)(R)(P)	III	1,2,3,4,5,D,U,B,K
9361 (V)(R)(P)	III	2,3,4,5,U,K
9391 (V)(R)(P)	III	2,3,4,5,6,U,B,K
9301 (V)(R)(P)	III	2,3,4,5,B
9381 (V)(R)(P)	III	2,3,4,5,6,U,B,K
9442 (V)(R)(P)	IV	2,3,4,5,6,B
9402 (V)(R)(P)	IV	5,6
9411 (V)(R)(P)	IV	5,6,B
9461 (V)(R)(P)	IV	5,6,B
9531 (V)(R)(P)	V	6

PRINCETON

PF 3787 (V)(R)	III	5
PF 3889 (V)(R)	III	5
PF 4490 (V)(R)	IV	6
PF 4588 (V)(R)	IV	5,6
PF 4884 (V)(R)	IV	6

PROFISEED

PS 1350 (V)(R)(P)	II	1
PS 3040 (V)(E)(P)	II	1

PUBLICS

BSR 101 (V)(R)(C)	I	1,D
BELL (V)(R)(CP)	I	1,2,D
JACK (V)(R)(CP)	II	1,2,3,4,D,U,K
KENWOOD (V)(R)(CP)	II	1,2,3,4,D,U,K
BURLISON (V)(R)(CP)	II	1,2,3,4,D,U,K
CONRAD (V)(R)(CP)	II	1,2,3,4,D,U,K
CENTURY 84 (V)(R)(CP)	II	1,2,3,4,D,U,K
BSR 201 (V)(R)(CP)	II	1,2,3,4,D,U,K
ELGIN 87 (V)(R)(CP)	II	1,2,3,4,D,U,K
HACK (V)(R)(CP)	II	1,2,3,4,D,U,K
PRESTON (V)(R)(C)	II	1,2,3,4,D,U,K
IL-1 (V)(E)	II	1,2,3,4,D,U
CHAPMAN (V)(E)	II	1,2,3,4,D,U
ARCHER (V)(E)	II	1,2,3,4,D,U
FAYETTE (V)(R)(C)	III	5,6,B
HOBBIT 87 (V)(R)	III	1,2,3,4,5,6,D,U,B
PELLA 86 (V)(R)(C)	III	1,2,3,4,5,6,D,U,B,K
WILLIAMS 82 (V)(R)(C)	III	4,5,6,U,B
HARPER 87 (V)(R)(CP)	III	1,2,3,4,5,6,D,U,B
SHERMAN (V)(R)(CP)	III	1,2,3,4,5,6,D,U,B,K
CHAMBERLAIN (V)(R)(CP)	III	1,2,3,4,5,6,D,U,B,K
CARTTER (V)(R)(C)	III	1,2,3,4,5,6,D,U,B,K
RESNIK (V)(R)(CP)	III	1,2,3,4,5,6,D,U,B,K
LINFORD (V)(R)(CP)	III	2,3,4,5,6,U,B
IL-2 (V)(E)	III	2,3,4,5,6,U,B
EDISON (V)(E)	III	2,3,4,5,6,U,B

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
BLEND (B) PROTECTED (P)
EXPERIMENTAL (E)
VARIETY (V) MATURITY TRIALS
RELEASED (R) GROUP ENTERED*

PUBLICS (con't.)

FLYER (V)(R)(CP)	IV	2,3,4,5,6,B
RIPLEY (V)(R)(CP)	IV	2,3,4,5,6,B
PYRAMID (V)(R)(C)	IV	5,6
UNION (V)(R)(C)	IV	2,3,4,5,6,B
PENNYRILE (V)(R)	IV	5,6
SPENCER (V)(R)(CP)	IV	2,3,4,5,6,B
HAMILTON (V)(R)(CP)	IV	2,3,4,5,6,B
PHAROAH (V)(R)(CP)	IV	5,6,B

RIDGWAY

JADER 3900 (V)(R)	III	6
JADER 461 (V)(R)	IV	6
JADER 467 (V)(R)	IV	6
JADER 4881 (V)(R)	IV	5
JADER 586 (V)(R)	V	6
JADER 5286 (V)(R)	V	6

SEDEX

240 (X)(V)(R)	II	1,2
309 (X)(V)(R)	III	1,2,3,4
391 (X)(V)(R)	III	2,5,6
395 (X)(B)(R)	III	5,6
456 (X)(V)(R)	IV	5,6
540 (X)(V)(R)	V	6

SEEDMAKERS

38092C (X)(V)(R)	II	4
------------------	----	---

SHISSLER

GR8 233 (V)(R)(P)	II	1
GR8 297 (V)(R)(P)	II	1,2,3,4
GR8 368 (V)(R)(P)	III	2,3,4
GR8 375 (V)(R)(P)	III	2,3,4
GR8 385 (V)(R)(P)	III	2,3,4

SIEBEN

SS 225 (V)(R)	II	1,2,D,U
SS 275 (V)(R)	II	1,2,D,U
SS 285 (V)(R)	II	1,2,D,U
SS 239 (V)(R)	II	1,2,D,U
SS 242 (V)(R)	II	1,2,D,U
SS 343 (V)(R)	III	1,2,D,U
SS 349 (V)(R)	III	1,2,D,U

SO. STATES COOP

SS-431 (V)(R)(P)	IV	6
FFR-464 (V)(R)(P)	IV	6
SS-487 (V)(R)(P)	IV	6
FFR-499 (V)(R)(P)	IV	6
FFR-561 (V)(R)(P)	V	6
SS-516 (V)(R)(P)	V	6

SPARTA

II 80 (X)(V)(R)	II	2
III 30 (X)(V)(R)	III	2

STEWART

STEWART 215 (V)(E)	II	1
STEWART 301 (V)(R)	III	1

*See page 11 for key to trial locations

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

STEWART (con't.)

STEWART 392 (V)(R) . . . III 1,2,3,4
 STEWART 393 (V)(R) . . . III 2,3,4
 STEWART 395 (B)(R) . . . III 2,3,4
 STEWART 315 (V)(R) . . . III 4

STINE

2170 (X)(V)(R) II 1,2,3,4
 3020 (X)(V)(R) III 1
 2980 (X)(V)(R) II 2,3,4
 3065 (B)(R) III 2,3,4
 3075 (B)(R) III 2,3,4
 4880 (X)(V)(R) IV 5,6
 4150 (X)(V)(R) IV 5,6

STONE

SE-204 (V)(R)(P) III 2,U
 SE-306 (V)(R)(P) III 2,3,4,U
 SE-310 (V)(R)(P) III 4,U
 SE-208 (V)(R)(P) II 2,U
 SE-305 (V)(R)(P) III 2,3,4,U

TERRA

RUNNER III (V)(R) I 1,D
 WINNER (V)(R) II 1,2,3,4,D,U
 MEDALIST (V)(R) II 1,2,3,4,D,U
 FINALIST (V)(R) III 1,2,3,4,5,D,U,B
 SPRINT (V)(R) II 1,2,3,4,D,U
 VICTORY (V)(R) III 1,2,3,4,5,6,D,U,B
 CYCLE (V)(R) III 2,3,4,5,6,U,B
 COMPETITOR (V)(R) . . . IV 5,6,B

TRISLER

TRISOY 281 (V)(R) II 1,4
 TRISOY 262 (V)(R) II 4
 TRISOY 221 (V)(R) II 1,4,U
 TRISOY 271 (V)(R) II 1,4
 TRISOY 291 (V)(R) II 4
 TRISOY 294 (V)(E) II 1,4,U
 TRISOY 303 (V)(E) III 1,4
 TRISOY 377 (V)(R) III 1,4,5
 TRISOY 3716 (V)(R) III 4,5
 TRISOY 398 (V)(E) III 4,5
 TRISOY 361 (V)(R) III 5
 TRISOY 364 (V)(R) III 4,5
 TRISOY 381 (V)(R) III 5
 TRISOY 475 (V)(R) IV 5,6
 TRISOY 477 (V)(R) IV 5,6
 TRISOY 402 (V)(E) IV 6

TWIN STATES

9280 (V)(R)(P) II 1,2,3,4,U
 9330 (V)(R)(P) III 1,2,3,4,U
 9350 (V)(R)(P) III 2,3,4
 9380 (V)(R)(P) III 2,3,4,5,U
 9390 (V)(R)(P) III 1,2,6,B,K
 9410 (V)(R)(P) IV 5

1990 ENTRIES

ENTRY

BRAND (X) CERTIFIED (C)
 BLEND (B) PROTECTED (P)
 EXPERIMENTAL (E)
 VARIETY (V) MATURITY TRIALS
 RELEASED (R) GROUP ENTERED*

TWIN STATES (con't.)

9420 (V)(R)(P) IV 5
 UPHOFF
 3100 (X)(V)(R) III 1,2,3,4,D,U
 3400 (X)(V)(R) III 2,3,4
 3600 (X)(V)(R) III 2,3,4,5,B
 4300 (X)(V)(R) IV 5,6

VORIS

V213 (V)(R) II 1
 V223 (V)(R) II 1
 V243 (V)(R) II 1,2
 V277 (V)(R) II 1,2,3,4
 V289 (V)(R) II 2,3,4
 V309 (V)(R) III 1,2,3,4
 V319 (V)(R) III U
 V340 (V)(R) III 2
 V357 (V)(R) III 2,3,4,U
 V363 (V)(R) III 2,3,4,5
 V379 (V)(R) III U
 V380 (V)(R) III 4,5
 V447 (V)(R) IV 5

WILDY

WS 3588 (V)(E)(C) III 5,B
 WS 3508 (V)(R)(C) III 5,B
 WS 3838 (V)(E)(C) III 5,B

WILKEN

1475 (X)(V)(E) I 1
 2390 (X)(V)(R) II 1,D
 2401 (X)(B)(R) II 1
 2405 (X)(V)(E) II 1
 2435 (X)(V)(E) II 1
 2460 (X)(V)(R) II 1,2
 2510 (X)(V)(E) II 1
 2523 (X)(V)(R) II 1,2
 2505 (X)(V)(R) II 1,2
 2542 (X)(V)(R) II 1,2
 2566 (X)(V)(R) II 1,2,D
 2570 (X)(V)(E) II 1,2,D
 2560 (X)(V)(R) II 1,2,D
 3407 (X)(V)(R) III 1,2,D,U
 3430 (X)(V)(R) III 1,2
 3477 (X)(V)(R) III 2,3,4
 3484 (X)(V)(R) III 2,3,4
 3621CN (X)(V)(R) III 1,2,3,4

WILSON

WB3165 (V)(R) III 3,K
 WB3300 (B)(R) III 3,K

*1=DeKalb & Dwight 30"; 2=Monmouth & Urbana 30";
 3=Monmouth & Perry 30"; 4=Urbana & Perry 30";
 5=Brownstown & Belleville 30"; 6=Carbondale & Dixon
 Springs 30"; D=Dwight 7"; U=Urbana 7"; B = Brownstown
 7"; K = Kilbourne 30" irrigated

Region I: DeKalb (DE) and Dwight (DW) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(DE)	(DW)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
MATURITY GROUP I									
AGRINETICS									
AGRISOY 155	57	50	63	9/13	1.6	29	1.0		
ASGROW SEED CO.									
A1929	62	58	65	9/18	1.8	31	1.0	61.6	
DERAEDT SEEDS									
SUPER SELECT 1860	59	51	66	9/15	1.5	29	1.0		
INTRA-AMERICA									
I-01	59	55	64	9/19	2.5	34	1.0		
MERSCHMAN SEEDS									
MARS	55	51	59	9/19	1.8	28	1.0	57.0	
VENUS	49	46	53	9/18	1.7	30	1.0	55.5	51.7
PUBLIC VARIETY									
BELL	61	58	63	9/17	1.9	29	1.0	60.4	
BSR 101	59	60	57	9/15	1.7	31	1.0	61.4	59.0
TERRA INTERNATIONAL									
RUNNER III	52	49	55	9/14	1.6	28	1.0		
WILKEN SEED GRAINS									
1475	59	57	61	9/18	2.1	30	1.0		
AVERAGE	57.0	53.6	60.5		1.8	30	1.0	59.2	55.4
L.S.D. 10% LEVEL	8.7	11.5	5.4		0.4	4			
L.S.D. 30% LEVEL	5.5	7.1	3.3		0.2	2			
STD ER OF TRT MN	2.6	4.7	2.2		0.1	1		2.8	5.1

MATURITY GROUP II

AGRIGENE SEED RESEARCH									
AG228	66	67	66	9/26	2.4	35	1.0		
AGRINETICS									
AGRISOY 208	55	51	59	9/22	2.2	34	1.0	55.3	51.9
AGRISOY 210	55	49	60	9/23	2.3	30	1.0	56.2	54.0
AGRISOY 222	66	64	67	9/24	1.5	29	1.0	65.5	60.5
AGRISOY 235	60	59	61	9/25	2.1	34	1.0	58.1	55.8
AGRISOY 240	65	65	65	9/24	2.3	34	1.0		
ASGROW SEED CO.									
A2234	57	49	65	9/16	1.8	33	1.0	60.4	54.9
A2396	55	53	58	9/17	1.2	32	1.0		
A2543	64	65	63	9/21	1.4	29	1.0	64.7	
A2872	63	61	65	9/23	1.5	35	1.0		
ATLAS S-BRAND									
A-251	68	66	70	9/22	1.5	35	1.0	69.5	
S-270	63	64	61	9/25	1.0	32	1.0	65.4	
S-46H	71	73	69	9/24	1.7	32	1.0	69.0	62.8
X-241	61	58	64	9/18	1.3	29	1.0		
CALLAHAN SEEDS									
1288X	66	67	65	9/22	1.2	28	1.0		
1290X	68	65	71	9/24	1.8	34	1.0	65.5	
8252	65	60	70	9/21	2.2	34	1.0	63.1	59.3
9222X	58	57	58	9/19	1.8	33	1.0	59.7	57.3
9270X	71	71	71	9/22	1.8	32	1.0	70.2	64.7
CARGILL									
277	62	60	64	9/22	1.3	33	1.0		
CHALLENGER SEED CO.									
CSB 640	62	59	66	9/21	1.7	32	1.0	61.9	58.9
CSB 667	63	62	64	9/26	2.2	34	1.0	63.6	61.3
CSV 2200	60	64	56	9/23	1.7	33	1.0	59.8	57.7
CSV 267	63	63	64	9/26	2.2	35	1.0		
CSV 285	60	55	65	9/25	2.0	30	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(DE)	(DW)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
CIBA-GEIGY SEED									
FUNK'S G 3258	63	57	68	9/21	2.3	35	1.0		
CUSTOM FARM SEED									
CFS 231	60	58	63	9/23	2.0	34	1.0	60.7	59.2
CFS 244	66	66	67	9/25	2.1	36	1.0	64.0	
DAIRYLAND SEED CO.									
DSR-247	63	59	66	9/19	2.2	36	1.0		
DSR-262	65	66	65	9/24	2.2	35	1.0	66.1	61.4
DSR-270	65	62	68	9/24	1.4	30	1.0	63.3	58.6
DEKALB PLANT GENETICS									
CX259	65	58	72	9/23	2.1	33	1.0	63.9	
CX264	56	49	62	9/20	1.8	29	1.0	56.1	52.9
CX283	60	58	63	9/24	2.6	32	1.0	57.7	56.0
CX298	61	60	62	9/25	1.6	33	1.0	60.4	56.3
DERAEDT SEEDS									
SUPER SELECT 2155	68	72	63	9/25	1.5	32	1.0		
ED. J. FUNK & SONS									
DIAMOND D-210	61	58	65	9/21	2.4	33	1.0	62.9	
DIAMOND D-285	59	60	58	9/25	1.6	33	1.0	58.8	
DIAMOND TC-204A	63	58	69	9/23	2.2	33	1.0	61.5	
SUPER CROST SC291	65	65	65	9/24	2.1	35	1.0		
GOLDEN HARVEST									
H-1260	65	60	71	9/22	2.3	34	1.0		
H-1278	69	71	68	9/26	1.6	32	1.0	65.8	60.4
H-1285	58	52	64	9/21	2.3	33	1.0	57.9	56.2
GREAT LAKES HYBRIDS									
GL 2291	63	59	67	9/23	2.3	36	1.0		
GL 2616	59	54	65	9/24	2.2	36	1.0	58.9	
GL 2868	67	67	68	9/27	2.3	36	1.0		
GREATER AMERICAN SEED									
COLT-3	63	59	67	9/24	2.1	35	1.0	59.3	56.5
GA 2290	66	66	67	9/24	1.4	34	1.0		
MUSTANG 89	65	67	63	9/26	2.4	35	1.0		
PINTO II	62	61	64	9/23	1.5	33	1.0	61.6	
GRIFFITH SEED CO.									
PL 2010	61	57	65	9/22	1.2	30	1.0	62.7	
PL 2015	63	58	68	9/21	1.6	33	1.0		
PL 2100	56	57	56	9/22	1.4	33	1.0		
PL 3257X	60	60	59	9/22	1.7	33	1.0		
PL 8216X	60	62	57	9/23	1.4	34	1.0		
GROWMARK									
HS 2102	59	57	62	9/19	1.9	31	1.0	58.5	
HS 2455	57	57	57	9/18	1.5	32	1.0	59.3	55.5
HS 2512	65	60	70	9/21	2.0	34	1.0	62.4	
HS 2533	60	58	62	9/22	1.3	34	1.0	60.4	
HS 266	62	65	58	9/22	1.6	36	1.0	62.3	57.2
HS 2821	67	67	67	9/25	1.6	30	1.0		
HENKEL SEEDS									
SUPER SOY 510	53	50	56	9/20	2.5	37	1.0		
SUPER SOY 515	62	57	67	9/21	2.1	31	1.0		
SUPER SOY 520	65	59	71	9/24	1.4	31	1.0	64.3	
SUPER SOY 522	67	68	65	9/22	2.2	36	1.0		
SUPER SOY 524	56	58	55	9/23	1.3	32	1.0		
SUPER SOY 525	55	54	56	9/25	2.2	36	1.0	57.0	54.3
SUPER SOY 650	57	50	64	9/24	2.6	32	1.0		
SUPER SOY 670	63	65	62	9/27	2.1	34	1.0		
J M SCHULTZ SEED CO.									
JMS 2288	64	60	68	9/20	2.1	33	1.0	62.9	59.5
JMS 2690	62	61	62	9/20	1.5	33	1.0		
JMS 2990	67	70	64	9/25	2.0	35	1.0		

Region I: DeKalb (DE) and Dwight (DW) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results								Average	
	Reg.	(DE)	(DW)					2-Yr 3-Yr		
	Yld	Yld	Yld	Mat.	Lod	Ht	Sha	Yld	Yld	
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A	
J M SCHULTZ SEED CO.										
JMS EX2400	48	47	49	9/18	1.7	31	1.0			
JMS EX2700	64	64	65	9/26	2.5	37	1.0			
JACQUES SEED CO.										
J-245	54	52	55	9/17	1.2	30	1.0			
KALTENBERG SEED FARMS										
KB250	71	76	66	9/24	1.5	31	1.0			
KB260	62	60	64	9/25	1.1	34	1.0			
KB270	62	53	71	9/23	1.3	31	1.0			
KRUGER SEED CO.										
DESOY 288	68	66	70	9/22	1.1	30	1.0			
K 2626	64	64	65	9/20	1.3	30	1.0			
K 2660	65	66	65	9/23	1.4	35	1.0			
K 2727	73	71	74	9/24	1.7	32	1.0			
LEWIS HYBRIDS										
282	67	67	68	9/25	2.3	36	1.0	66.2		
LYNKS SEEDS										
5245	62	59	65	9/20	2.0	34	1.0	62.0		
MERSCHMAN SEEDS										
CHEROKEE VI	57	56	59	9/21	2.7	36	1.0	61.2	58.2	
CHEYENNE II	62	57	68	9/24	2.1	34	1.0	58.7	56.3	
CHICKASAW II	55	57	53	9/23	1.3	32	1.0			
COMANCHE III	63	59	68	9/21	2.0	33	1.0			
MOHAVE	66	67	64	9/26	2.2	34	1.0	64.6	62.0	
MOHAWK	67	64	69	9/24	1.8	31	1.0	68.0	62.9	
MOHEGAN	60	56	64	9/17	2.3	32	1.0	60.8	55.5	
MUNSEE II	57	56	59	9/19	1.7	32	1.0	58.9	56.1	
SAUK III	63	63	62	9/25	2.0	32	1.0	61.3		
SAUK IV	59	56	62	9/24	1.7	32	1.0			
SHAWNEE IV	63	62	64	9/21	2.0	34	1.0			
UTE	65	60	69	9/20	2.2	32	1.0	63.2		
MIDWEST OILSEEDS										
2960	68	70	66	9/23	1.5	31	1.0	67.1	62.7	
MUIRHEAD FARMS										
MF 24	61	60	62	9/23	1.5	30	1.0	62.3		
MF 265	60	58	61	9/21	1.4	32	1.0			
MF 281	67	67	68	9/24	2.4	35	1.0	66.7		
MF 299	66	65	66	9/24	2.1	33	1.0			
NOBLEBEAR										
NB 2240	56	53	59	9/18	2.4	32	1.0	58.2	53.3	
NB 2780	55	58	53	9/22	1.4	32	1.0			
NB 2890	66	65	66	9/24	1.5	32	1.0	64.7		
NB 2905	63	66	60	9/24	2.2	33	1.0	63.3		
NB 3006	66	68	63	9/25	1.8	34	1.0			
NORTHROP KING CO.										
S19-90	60	60	60	9/17	1.2	30	1.0	64.0		
S23-12	63	61	64	9/19	1.1	35	1.0	64.1	61.0	
S25-15	55	51	59	9/22	2.1	33	1.0			
S28-18	64	63	64	9/24	1.0	34	1.0			
S29-39	57	52	63	9/26	2.4	32	1.0			
PIONEER III-BRED INTERN.										
9202	56	56	56	9/17	1.6	30	1.0	59.4	54.0	
9241	55	43	66	9/21	1.5	29	1.0			
9272	61	57	65	9/19	1.4	32	1.0	64.2	59.6	
9273	61	64	58	9/23	1.4	30	1.0			
9292	59	57	61	9/23	1.3	32	1.0	60.1	57.3	
9293	62	63	62	9/24	1.8	31	1.0	60.9	58.1	
PROFISEED										
PS 1350	60	53	68	9/21	2.4	31	1.0			
PS 3040	59	58	61	9/24	1.3	32	1.0			
PUBLIC VARIETY										
ARCHER	60	59	60	9/17	1.9	33	1.0			
BSR 201	61	62	61	9/24	3.2	34	1.0	60.6	57.1	
BURLISON	61	55	66	9/25	2.1	33	1.0	61.3	59.2	
CENTURY 84	53	42	64	9/23	1.7	37	1.0	51.9	49.7	
CHAPMAN	61	59	63	9/24	1.8	33	1.0			
CONRAD	60	59	62	9/23	1.7	32	1.0	61.8	57.3	
ELGIN 87	57	55	59	9/21	2.3	32	1.0	58.4	54.5	
HACK	57	58	57	9/24	1.4	30	1.0	59.1	55.7	
IL-1	44	44	45	9/26	2.2	25	1.2			
JACK	69	70	68	9/27	2.7	39	1.0	67.7		
KENWOOD	60	59	61	9/22	2.3	34	1.0	60.6		
PRESTON	60	63	56	9/24	2.3	35	1.0	59.8	56.8	
SEDEX										
240	67	69	65	9/24	1.6	33	1.0			
SHISSLER SEED CO.										
GR8 233	66	62	69	9/24	2.1	34	1.0	63.2		
GR8 297	62	62	63	9/26	2.3	34	1.0			
SIEBEN HYBRIDS										
SS 225	63	58	68	9/20	2.2	32	1.0	61.8		
SS 239	57	56	58	9/24	2.3	38	1.0	58.5	55.6	
SS 242	59	57	60	9/25	2.4	37	1.0	57.1	54.7	
SS 275	65	62	69	9/21	1.7	35	1.0			
SS 285	64	65	64	9/24	2.3	35	1.0			
STEWART HYBRIDS										
STEWART 215	63	60	66	9/24	2.0	30	1.0			
STINE SEED FARM										
2170	64	66	62	9/22	1.3	35	1.0			
TERRA INTERNATIONAL										
MEDALIST	61	59	63	9/21	2.8	34	1.0	60.5	57.4	
SPRINT	60	56	63	9/24	2.1	33	1.0	60.5	57.7	
WINNER	63	61	65	9/22	2.1	32	1.0			
TRISLER SEED FARMS										
TRISOY 221	61	63	59	9/23	1.9	30	1.0	58.5	55.5	
TRISOY 271	70	70	71	9/26	1.4	32	1.0	66.1	60.6	
TRISOY 281	63	60	65	9/20	1.9	34	1.0	61.0	57.5	
TRISOY 294	61	58	64	9/24	1.9	32	1.0			
TWIN STATES										
9280	66	66	66	9/25	2.2	36	1.0			
VORIS SEEDS										
V213	56	59	53	9/18	1.6	34	1.0			
V223	57	57	57	9/19	2.0	34	1.0			
V243	60	60	61	9/22	2.1	32	1.0			
V277	66	66	66	9/25	2.1	35	1.0	65.7		
WILKEN SEED GRAINS										
2390	55	55	56	9/19	1.8	34	1.0	57.6		
2401	56	52	61	9/22	2.1	30	1.0	56.6		
2405	60	57	63	9/20	2.5	37	1.0			
2435	61	58	64	9/17	2.3	30	1.0			
2460	60	56	64	9/22	1.8	32	1.0	58.4		
2505	65	59	70	9/26	2.4	38	1.0	59.6		
2510	69	69	70	9/25	1.6	32	1.0	67.1		
2523	66	66	65	9/25	2.4	37	1.0	65.1		
2542	61	61	62	9/21	2.2	33	1.0	60.9		
2560	68	67	69	9/25	1.5	31	1.0			
2566	63	60	67	9/21	1.5	32	1.0	62.2		
2570	62	63	61	9/23	1.3	33	1.0			

Region I: Dekalb (DE) and Dwight (DW) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(DE)	(DW)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

MATURITY GROUP II, continued

AVERAGE	61.9	60.2	63.5	..	1.9	33	1.0	61.8	57.5
L.S.D. 10% LEVEL	6.4	5.5	7.1	..	0.5	3	0.1	..	..
L.S.D. 30% LEVEL	4.0	3.5	4.5	..	0.3	2	0.0	..	..
STD ER OF TRT MN	1.9	2.4	3.0	..	0.1	1	0.0	3.4	3.0

MATURITY GROUP III

CALLAHAN SEEDS

1330X	69	70	68	9/28	1.6	36	1.0		
9320N	61	60	62	10/02	2.3	39	1.0		
9350	66	66	67	9/29	2.5	37	1.0		

CHALLENGER SEED CO.

CSV 3150	65	63	68	9/30	1.7	34	1.0		
CSV 3200	66	64	68	9/29	2.0	37	1.0		
CSV 3500	62	64	61	10/02	1.4	39	1.0		

CUSTOM FARM SEED

CFS 315	65	63	66	9/30	1.6	35	1.0		
---------	----	----	----	------	-----	----	-----	--	--

DEKALB PLANT GENETICS

CX 329	63	61	65	9/28	1.7	37	1.0		
--------	----	----	----	------	-----	----	-----	--	--

ED. J. FUNK & SONS

CHAMPION	64	61	67	9/29	1.3	32	1.0	61.4	
DIAMOND D-300	59	58	61	10/02	1.7	32	1.0		

GOLDEN HARVEST

H-1303	66	65	66	10/01	2.0	37	1.0		
--------	----	----	----	-------	-----	----	-----	--	--

GREAT LAKES HYBRIDS

GL 3202	61	61	62	9/28	1.6	34	1.0	60.8	
---------	----	----	----	------	-----	----	-----	------	--

J M SCHULTZ SEED CO.

JMS 3309	61	64	58	10/02	1.3	38	1.0		
----------	----	----	----	-------	-----	----	-----	--	--

KALTENBERG SEED FARMS

KB308	67	65	70	9/28	2.1	34	1.0		
KB319	62	60	64	10/01	2.1	35	1.0		

NORTHRUP KING CO.

S30-41	62	63	60	9/26	1.7	34	1.0		
S34-19	62	60	65	10/01	2.2	33	1.0		

PIONEER HI-BRED INTERN.

9302	63	59	67	9/20	1.2	34	1.0	61.9	
9303	66	64	69	9/27	1.7	34	1.0	62.2	
9341	66	65	68	9/28	2.0	37	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(DE)	(DW)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

PUBLIC VARIETY

CARTTER	62	62	62	9/28	2.7	36	1.0	61.6	57.8
CHAMBERLAIN	62	60	64	10/03	2.2	38	1.0	60.1	57.7
HARPER 87	60	55	64	9/28	1.8	35	1.0	55.9	53.2
HOBBIT 87	59	59	60	9/30	1.0	22	1.0	61.3	56.9
PELLA 86	57	55	59	9/26	1.9	36	1.0	55.8	52.9
RESNIK	63	63	63	9/29	1.7	36	1.0	60.8	57.2
SHERMAN	58	57	58	9/27	2.8	35	1.0	57.0	55.5

SEDEX

309	59	58	60	9/29	1.9	35	1.0		
-----	----	----	----	------	-----	----	-----	--	--

SIEBEN HYBRIDS

SS 343	67	66	68	9/30	2.2	38	1.0	62.9	
SS 349	63	60	66	9/29	1.8	33	1.0	61.9	

STEWART HYBRIDS

STEWART 301	65	69	62	9/28	2.3	35	1.0		
STEWART 392	63	64	61	10/06	2.1	41	1.0		

STINE SEED FARM

3020	67	68	66	9/29	1.6	32	1.0	64.8	
------	----	----	----	------	-----	----	-----	------	--

TERRA INTERNATIONAL

FINALIST	63	64	62	9/28	1.9	34	1.0		
VICTORY	66	64	69	10/05	2.0	40	1.0		

TRISLER SEED FARMS

TRISOY 303	66	67	65	9/29	2.2	36	1.0		
TRISOY 377	62	61	63	10/03	1.8	36	1.0	58.8	56.9

TWIN STATES

9330	63	62	64	10/02	1.6	36	1.0		
9390	69	70	68	10/03	1.5	37	1.0		

UPHOFF SEEDS

3100	64	62	65	9/30	1.8	36	1.0	63.2	58.8
------	----	----	----	------	-----	----	-----	------	------

VORIS SEEDS

V309	64	64	64	9/30	2.2	37	1.0		
------	----	----	----	------	-----	----	-----	--	--

WILKEN SEED GRAINS

3407	65	67	64	9/28	2.1	34	1.0		
3430	64	65	64	9/29	2.4	39	1.0		
3621CN	64	69	60	9/30	1.3	36	1.0		

AVERAGE	63.5	63.0	64.2	..	1.9	35	1.0	60.6	56.3
L.S.D. 10% LEVEL	5.0	4.7	5.3	..	0.4	3	..	..	..
L.S.D. 30% LEVEL	3.1	2.9	3.4	..	0.2	2	..	..	..
STD ER OF TRT MN	1.5	2.0	2.3	..	0.1	1	..	2.6	2.0

Region II: Monmouth (MO) and Urbana (UR) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(UR)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

MATURITY GROUP I

PUBLIC VARIETY

BELL	59	58	60	9/07	2.2	32	1.0	55.1	
------	----	----	----	------	-----	----	-----	------	--

MATURITY GROUP II

AINSWORTH SEED CO.

2A-88	63	64	62	9/17	2.3	36	1.0		
-------	----	----	----	------	-----	----	-----	--	--

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(UR)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

ASGROW SEED CO.

A2396	66	67	66	9/11	1.6	36	1.0		
A2872	66	66	66	9/15	1.4	34	1.0		

ATLAS S-BRAND

A280	66	65	66	9/13	1.2	33	1.0	62.3	55.0
S-280	65	65	64	9/14	1.3	33	1.0	62.5	

BAIRD SEED CO.

B-2290	65	66	63	9/15	2.3	36	1.0		
B-3090	70	69	72	9/19	2.8	40	1.0		

Region II: Monmouth (MO) and Urbana (UR) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(UR)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
CHALLENGER SEED CO.									
CSB 667	68	69	67	9/15	2.3	35	1.0		
CSV 267	64	66	63	9/18	2.1	37	1.0		
CSV 285	72	71	74	9/16	1.9	35	1.0		
CSV 29	72	71	73	9/15	2.1	35	1.0	64.0	56.2
CIBA-GEIGY SEED									
FUNK'S G 3258	68	70	66	9/13	2.3	36	1.0		
CUSTOM FARM SEED									
CFS 231	63	60	65	9/13	2.2	34	1.0	61.8	
CFS 244	63	58	69	9/18	2.6	35	1.0		
DAIRYLAND SEED CO.									
DSR-262	66	66	66	9/17	2.3	35	1.0	62.6	54.1
DSR-270	71	73	68	9/16	1.2	32	1.0	64.4	54.4
DSR-290	65	66	65	9/15	2.0	34	1.0	59.8	53.7
DEKALB PLANT GENETICS									
CX259	69	66	72	9/12	2.2	36	1.0		
CX298	63	62	64	9/16	1.7	33	1.0	60.8	52.0
ED. J. FUNK & SONS									
DIAMOND D-285	68	70	66	9/17	1.7	35	1.0	63.1	
SUPER CROST SC291	66	65	68	9/17	2.4	37	1.0		
FURROW SEED CO.									
ST-2220	70	73	68	9/21	1.4	32	1.0		
ST-2280	66	66	66	9/12	2.0	37	1.0	60.9	
ST-2703	63	62	65	9/16	2.6	37	1.0	61.3	
GOLDEN HARVEST									
H-1260	70	67	73	9/11	2.3	36	1.0	65.5	
H-1278	72	73	70	9/19	1.3	32	1.0		
H-1285	71	72	70	9/17	2.3	36	1.0	61.7	
X-252	71	75	66	9/13	1.6	36	1.0		
X-256	72	72	73	9/11	1.6	36	1.0		
X-299	66	67	64	9/20	2.5	38	1.0		
GREAT LAKES HYBRIDS									
GL 2616	67	67	66	9/19	1.7	37	1.0		
GL 2868	70	71	69	9/22	2.0	36	1.0		
GREATER AMERICAN SEED									
PINTO II	69	67	71	9/15	1.8	35	1.0	63.1	
GRIFFITH SEED CO.									
PL 2010	65	66	65	9/11	1.5	32	1.0	58.4	
PL 2015	63	65	61	9/15	1.5	34	1.0		
PL 2100	68	68	69	9/15	1.4	35	1.0		
PL 3257X	72	79	65	9/13	1.5	34	1.0		
PL 8216X	65	65	65	9/13	1.7	32	1.0		
GROWMARK									
HS 2512	67	69	65	9/10	2.0	37	1.0	63.0	
HS 2533	61	66	56	9/11	1.2	34	1.0	59.8	
HS 266	67	68	66	9/16	1.7	39	1.0	62.6	53.9
HS 2821	70	71	69	9/20	1.4	34	1.0	64.3	54.4
HOBLIT SEED CO.									
HB 281	64	66	63	9/17	1.7	35	1.0		
HB 282	64	63	66	9/18	2.3	37	1.0		
J M SCHULTZ SEED CO.									
JMS 2288	67	67	66	9/13	2.0	34	1.0	62.8	
JMS 2690	66	68	64	9/14	1.6	33	1.0		
JMS 2990	69	67	70	9/21	2.2	36	1.0		
JMS EX2400	60	57	62	9/10	2.1	35	1.0		
JMS EX2700	65	66	63	9/18	2.2	38	1.0		
JACQUES SEED CO.									
J-285	61	60	63	9/17	1.7	31	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(UR)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
KAISER ESTECH									
KE 258	74	76	71	9/17	1.3	32	1.0	65.3	55.5
KE 276	68	68	67	9/15	2.3	38	1.0	64.8	
KRUGER SEED CO.									
DESOY 311CN	71	71	71	9/24	2.4	40	1.0		
K 2828	66	63	68	9/14	1.3	33	1.0		
LEWIS HYBRIDS									
282	62	65	59	9/19	2.2	35	1.0	61.3	53.8
MERSCHMAN SEEDS									
CHEYENNE II	67	67	67	9/14	2.2	38	1.0	61.0	51.8
CHICKASAW II	59	57	60	9/14	1.8	33	1.0		
MOHAVE	68	67	68	9/17	2.5	37	1.0	60.7	54.2
MOHAWK	68	71	65	9/14	1.5	33	1.0	60.4	51.6
SAUK III	70	71	70	9/18	2.2	37	1.0	64.0	
SAUK IV	67	70	63	9/14	1.7	34	1.0		
SHAWNEE IV	66	66	65	9/14	1.5	34	1.0		
NORTHROP KING CO.									
S28-18	64	66	62	9/14	1.2	33	1.0		
S29-39	70	70	70	9/25	2.5	36	1.0		
PIONEER III-BRED INTERN.									
9272	64	62	65	9/13	1.7	35	1.0	59.1	51.8
9273	72	74	70	9/14	1.7	33	1.0		
9292	67	66	68	9/18	1.5	34	1.0	60.0	52.2
9293	68	74	62	9/16	1.6	31	1.0	62.3	55.3
PUBLIC VARIETY									
ARCHER	64	67	61	9/10	1.7	36	1.0		
BSR 201	65	67	62	9/15	3.0	36	1.0	59.4	51.6
BURLISON	70	69	71	9/15	1.6	31	1.0	64.6	56.6
CENTURY 84	61	62	60	9/15	1.9	36	1.0	55.1	48.6
CHAPMAN	69	70	68	9/15	1.6	35	1.0		
CONRAD	70	67	73	9/14	1.7	34	1.0	63.7	52.4
ELGIN 87	65	65	66	9/15	2.3	34	1.0	57.4	50.0
HACK	62	64	59	9/13	1.4	34	1.0	57.0	48.6
IL-1	50	50	50	9/19	1.6	26	1.0		
JACK	75	79	71	9/24	2.3	43	1.0	68.6	
KENWOOD	68	67	69	9/15	2.2	37	1.0	60.8	
PRESTON	66	68	64	9/17	1.8	36	1.0	62.2	54.0
SEDEX									
240	69	74	65	9/14	1.6	33	1.0		
SHISSLER SEED CO.									
GR8 297	63	65	61	9/17	2.6	35	1.0	62.7	
SIEBEN HYBRIDS									
SS 225	67	65	69	9/12	2.2	36	1.0		
SS 239	67	69	64	9/20	2.2	42	1.0	60.7	53.1
SS 242	68	68	69	9/22	2.1	42	1.0	61.3	53.1
SS 275	75	75	74	9/17	1.7	36	1.0		
SS 285	68	68	68	9/18	2.5	36	1.0		
SPARTA SEED CO.									
II-80	69	68	70	9/22	2.5	36	1.0		
STINE SEED FARM									
2170	62	64	60	9/14	1.5	34	1.0		
2980	67	67	66	9/20	2.2	35	1.0	62.4	55.5
STONE SEED FARMS									
SE-208	65	63	66	9/16	2.3	37	1.0	62.1	
TERRA INTERNATIONAL									
MEDALIST	70	69	71	9/12	2.2	36	1.0	63.3	51.9
SPRINT	73	72	75	9/18	2.2	38	1.0	65.3	56.0
WINNER	68	67	70	9/12	2.2	37	1.0		

Region II: Monmouth (MO) and Urbana (UR) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)		(UR)				2-Yr 3-Yr	
	Yld	Yld	Yld	Mat.	Lod	Ht	Sha	Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
TWIN STATES									
9280	67	65	68	9/18	2.4	36	1.0		
VORIS SEEDS									
V243	68	69	67	9/12	1.9	37	1.0		
V277	65	65	65	9/15	2.0	37	1.0	63.4	
V289	71	72	69	9/15	1.5	37	1.0	64.9	54.8
WILKEN SEED GRAINS									
2460	70	71	70	9/18	2.3	38	1.0	60.5	
2505	68	70	66	9/18	2.6	41	1.0	63.6	
2523	65	65	66	9/17	2.2	37	1.0	65.0	
2542	61	66	55	9/12	2.0	35	1.0	61.0	
2560	72	75	70	9/21	1.3	30	1.0	64.8	
2566	68	70	67	9/15	1.4	33	1.0	63.6	
2570	66	65	67	9/16	1.7	34	1.0		
AVERAGE (GRPS I-II)	66.8	67.4	66.3		1.9	35	1.0	62.0	53.3
L.S.D. 10% LEVEL	5.5	3.8	6.7		0.4	3			
L.S.D. 30% LEVEL	3.5	2.4	4.2		0.3	2			
STD ER OF TRT MN	1.7	1.6	2.9		0.1	1		2.6	2.1
MATURITY GROUP III									
AGRIGENE SEED RESEARCH									
AG134	68	68	67	9/25	1.8	38	1.0	58.4	52.5
AG138	70	70	70	9/28	2.0	42	1.0	63.4	55.7
AINSWORTH SEED CO.									
3A-55	70	66	74	9/26	1.7	37	1.0	63.0	
ASGROW SEED CO.									
A3205	67	68	66	9/25	2.0	36	1.2	60.3	54.7
A3322	70	66	74	9/26	1.5	36	1.0	63.3	
A3427	68	69	67	9/25	1.8	35	1.0	63.6	54.9
ATLAS S-BRAND									
A370	71	74	68	9/26	1.6	37	1.0	64.8	57.6
S-370	72	72	71	9/21	1.8	35	1.0	64.7	
S-57A	66	68	64	9/25	1.5	35	1.0	63.1	
S-62+	68	67	69	9/26	1.7	35	1.0	60.8	53.3
BAIRD SEED CO.									
B-3082	68	65	72	9/24	2.4	37	1.0		
B-3292	67	65	68	9/27	1.7	33	1.0		
B-3392	69	68	69	9/25	1.2	35	1.0		
B-3491 CN	69	68	70	9/24	1.6	39	1.0		
BIDDLE SEEDS									
220	68	67	70	9/23	1.8	38	1.0	59.2	52.7
312	70	71	69	9/27	1.9	43	1.0	61.5	
CHALLENGER SEED CO.									
CSV 3150	69	68	70	9/22	1.3	36	1.0		
CSV 3200	72	70	74	9/24	2.1	37	1.0	63.7	56.9
CSV 3500	69	69	70	9/24	1.7	38	1.0		
CSV 3600	71	71	71	9/28	2.1	41	1.0	62.2	55.4
CSV 3800	70	70	70	9/24	1.4	40	1.0		
CIBA-GEIGY SEED									
FUNK'S G 3344	67	67	66	9/26	1.7	39	1.0		
FUNK'S G 3365	70	69	71	9/24	2.0	37	1.0	62.3	54.1
FUNK'S G 3375	65	62	68	9/29	2.0	42	1.0		
CUSTOM FARM SEED									
CFS 315	70	69	71	9/23	1.4	36	1.0		
CFS 316	70	71	68	9/27	2.3	40	1.0	60.5	
DAIRYLAND SEED CO.									
DSR-304	69	70	67	9/22	1.9	37	1.0	58.5	52.8
DSR-317	72	72	71	9/27	1.7	41	1.0	64.1	56.8
DAIRYLAND SEED CO. (con't.)									
DSR-333	67	68	66	9/23	1.5	41	1.0	63.4	56.0
DSR-373	72	71	73	9/27	1.5	39	1.0	64.9	56.9
DST-3110	69	69	68	9/21	2.0	40	1.0		
DST-3112	68	68	68	9/26	2.3	41	1.0		
DST-3113	74	75	74	9/26	1.6	35	1.0		
DEKALB PLANT GENETICS									
CX 329	66	67	65	9/24	1.5	36	1.0		
CX345	65	66	63	9/25	1.7	39	1.0	61.9	54.8
CX366	70	68	72	9/27	1.9	39	1.0	61.4	54.2
ED. J. FUNK & SONS									
AMERICANA SPIRIT	69	70	68	9/26	1.5	38	1.0		
CHAMPION	69	71	67	9/25	1.3	35	1.0	62.0	56.5
DIAMOND D-300	72	71	73	9/25	1.8	36	1.0	64.8	
DIAMOND D-301	72	69	74	9/27	1.9	42	1.0	64.0	
DIAMOND D-305	73	72	73	9/28	1.9	40	1.0	63.9	
PILGRIM	65	66	64	9/27	2.6	40	1.0		
GOLDEN HARVEST									
H-1303	71	71	72	9/25	2.0	37	1.0	61.2	
H-1308	69	67	71	9/23	1.7	38	1.0	59.4	
H-1355	73	71	74	9/28	2.1	43	1.0	63.8	
H-1358	69	68	69	9/26	1.5	39	1.0		
GREAT LAKES HYBRIDS									
GL 3202	67	65	68	9/25	1.5	35	1.0		
GL 3698	73	71	74	9/26	1.8	43	1.0		
GL 3788	59	56	62	9/25	3.0	38	1.0		
GREATER AMERICAN SEED									
GA 3089	69	69	69	9/25	2.3	38	1.0	62.3	
GRIFFITH SEED CO.									
PL 2250	64	64	64	9/20	2.7	37	1.0		
PL 3005	67	67	68	9/22	2.0	36	1.0	59.9	
PL 3140	68	68	68	9/24	1.5	39	1.0		
GROWMARK									
HS 3122	64	60	69	9/27	1.8	37	1.0	59.3	52.0
HS 3131	70	68	71	9/24	1.6	38	1.0	62.5	
HS 3411	71	70	71	9/27	2.0	40	1.0	66.4	
HS 3542	64	66	62	9/26	1.7	38	1.0	61.1	54.2
J & L RESEARCH									
3622	64	62	66	9/30	1.9	39	1.0		
J M SCHULTZ SEED CO.									
JMS 3290	72	73	72	9/28	2.1	41	1.0		
JMS 3309	67	67	67	9/26	1.6	41	1.0		
JMS 3609	67	68	66	9/28	1.6	39	1.0	62.2	55.5
JMS 3788	76	72	79	9/30	1.8	39	1.0	65.5	57.3
JMS EX3400	71	71	72	9/26	1.8	34	1.0		
JACQUES SEED CO.									
J-335	66	68	65	9/20	1.1	36	1.0	59.6	
KAISER ESTECH									
KE 131425	71	72	69	9/30	1.3	34	1.0		
KE 298	69	69	68	9/22	1.4	36	1.0	63.9	54.7
KE 358	70	72	68	9/28	2.0	43	1.0	62.3	55.4
KE 389	72	72	72	9/25	1.7	38	1.0	64.1	
KRUGER SEED CO.									
K 3333	75	75	76	9/21	1.7	35	1.0		
K 3838CN	70	73	67	9/28	1.6	38	1.0		
LEWIS HYBRIDS									
326	66	65	67	9/24	3.1	37	1.0		
351	66	68	64	9/27	1.8	39	1.0	60.3	54.5
367	74	74	75	9/29	1.8	42	1.0		

Region II: Monmouth (MO) and Urbana (UR) (30-inch row spacing), continued

Brand	1990 Results								Average	
	Reg.		(MO) (UR)						2-Yr 3-Yr	
	Cultivar or Blend	Yld	Yld	Yld	Mat.	Lod	Ht	Sha	Yld	Yld
		Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
LYNKS SEEDS										
5303		71	72	70	9/22	2.4	36	1.0	62.7	
MERSCHMAN SEEDS										
EISENHOWER II		66	66	66	10/01	2.5	40	1.0	61.4	
FILLMORE II		69	69	70	9/26	2.3	40	1.0	61.3	
GARFIELD		65	65	65	9/25	1.7	38	1.0	60.5	
HARRISON		66	65	68	9/18	2.1	38	1.0		
HOOVER II		72	72	72	9/22	2.1	35	1.0	62.7	
KENNEDY III		70	70	69	9/24	1.8	36	1.0	65.2	
MADISON II		67	66	68	9/23	2.7	39	1.0	59.6	
ROOSEVELT		68	70	66	9/27	1.9	39	1.0		
TRUMAN II		66	64	68	9/22	2.8	39	1.0	60.7	54.2
TRUMAN III		71	68	74	9/27	2.2	39	1.0	63.3	
WASHINGTON VI		71	72	70	9/28	1.7	40	1.0	61.8	53.6
MIDWEST OILSEEDS										
3090		67	63	70	9/30	2.5	41	1.0	61.7	56.2
3090E		69	65	72	9/30	2.1	40	1.0	61.6	55.6
3110		76	76	76	9/26	2.4	38	1.0		
3220		66	66	66	9/20	1.7	35	1.0		
NORTHROP KING CO.										
S30-41		70	69	70	9/19	2.1	37	1.0	61.7	
S34-19		65	66	65	9/24	1.9	36	1.0	59.0	52.9
S36-36		68	69	68	9/25	2.1	37	1.0	62.0	55.0
PIONEER III-BRED INTERN.										
9301		71	67	76	9/20	2.6	38	1.0	62.5	55.3
9302		66	65	66	9/18	1.2	36	1.0	58.5	
9303		73	72	73	9/20	1.6	34	1.0	63.1	
9341		71	72	70	9/24	2.0	36	1.0	63.0	
9361		69	68	69	9/24	2.0	40	1.0	59.4	53.5
9381		70	72	68	9/27	1.5	36	1.0		
9391		66	66	66	9/29	1.8	40	1.0	62.5	56.1
PUBLIC VARIETY										
CARTTER		66	64	67	9/24	2.6	39	1.0	59.7	52.0
CHAMBERLAIN		62	63	61	9/25	2.3	42	1.0	57.5	51.9
EDISON		67	67	67	9/24	1.3	34	1.0		
HARPER 87		63	62	65	9/24	2.0	36	1.0	57.4	52.2
HOBBIT 87		66	67	64	9/27	1.0	22	1.0	59.5	52.0
IL-2		56	56	57	9/28	1.8	30	1.0		
LINFORD		64	62	66	9/30	2.6	44	1.0	56.6	
PELLA 86		68	68	67	9/20	1.8	37	1.0	60.1	52.9
RESNIK		65	66	63	9/23	1.7	36	1.0	61.2	54.0
SIERMAN		66	64	67	9/26	3.3	37	1.0	57.2	52.2
SEDEX										
309		69	67	71	9/25	2.2	37	1.0		
391		70	72	69	9/27	1.7	38	1.0	61.6	54.7
SHISSLER SEED CO.										
GR8 368		67	64	70	9/26	1.8	37	1.0	62.1	
GR8 375		65	67	63	9/28	2.1	41	1.2	58.4	
GR8 385		71	69	73	9/29	1.9	42	1.0	64.2	
SIEBEN HYBRIDS										
SS 343		69	70	68	9/23	2.0	36	1.0	61.0	
SS 349		69	68	69	9/26	1.6	37	1.0	62.6	
SPARTA SEED CO.										
3030		67	67	67	9/26	1.6	38	1.0		
STEWART HYBRIDS										
STEWART 392		69	70	68	9/27	1.9	42	1.0	60.5	
STEWART 393		66	66	66	9/20	1.7	38	1.0	59.4	
STEWART 395		64	62	66	9/27	2.2	41	1.0	58.3	
STINE SEED FARM										
3065		69	68	70	9/23	2.0	38	1.0	62.8	
3075		74	70	77	9/29	1.9	36	1.0		
STONE SEED FARMS										
SE-204		67	69	64	9/24	2.0	36	1.0		
SE-305		69	67	72	9/25	1.7	38	1.0		
SE-306		70	70	69	9/28	1.6	36	1.0		
TERRA INTERNATIONAL										
CYCLE		66	68	63	9/28	1.6	37	1.0	59.1	53.6
FINALIST		71	66	75	9/23	1.4	35	1.0		
VICTORY		71	72	71	9/28	2.0	40	1.0		
TWIN STATES										
9330		68	66	70	9/26	1.8	36	1.0		
9350		68	68	68	9/27	1.8	39	1.0		
9380		72	72	73	9/28	2.1	41	1.0		
9390		72	74	70	9/28	1.3	37	1.0		
UPHOFF SEEDS										
3100		68	66	70	9/23	2.0	35	1.0	62.7	53.8
3400		70	68	73	9/27	2.5	39	1.0	61.8	54.2
3600		68	71	66	9/28	1.8	39	1.0	60.4	53.7
VORIS SEEDS										
V309		69	68	69	9/22	2.2	39	1.0	62.0	54.4
V340		67	68	67	9/26	1.8	39	1.0		
V357		68	67	68	9/25	1.6	35	1.0	62.3	
V363		69	70	67	9/23	1.3	35	1.0		
WILKEN SEED GRAINS										
3407		67	67	66	9/19	2.4	36	1.0	60.9	
3430		69	69	69	9/23	2.2	39	1.0	61.2	
3477		70	71	69	9/27	1.8	43	1.0	62.7	
3484		72	70	74	9/28	1.9	40	1.0	62.0	
3621CN		67	70	65	9/24	1.7	37	1.0	62.2	
AVERAGE		68.6	68.0	68.9		1.9	38	1.0	61.6	54.4
L.S.D. 10% LEVEL		5.2	3.8	6.3		0.4	3	0.1		
L.S.D. 30% LEVEL		3.3	2.4	4.0		0.2	2	0.0		
STD ER OF TRT MN		1.6	1.6	2.7		0.1	1	0.0	2.0	1.6
MATURITY GROUP IV										
PIONEER HI-BRED INTERN.										
9442		64	65	64	9/29	1.6	35	1.0		
PUBLIC VARIETY										
FLYER		67	69	65	9/28	1.7	35	1.0	62.5	
HAMILTON		71	71	71	9/28	2.1	37	1.0	61.7	
RIPLEY		63	61	65	9/29	1.4	26	1.0	58.5	51.8
SPENCER		63	61	65	10/02	1.4	36	1.0	58.0	
UNION		59	58	59	10/01	2.4	45	1.0	52.9	48.0
AVERAGE		64.6	64.2	64.7		1.8	36	1.0	58.7	49.4
L.S.D. 10% LEVEL		4.9	3.4	6.3		0.4	3			
L.S.D. 30% LEVEL		3.0	2.0	3.9		0.2	2			
STD ER OF TRT MN		1.4	1.3	2.5		0.1	1		3.8	2.6

Region III: Monmouth (MO) and Perry (PE) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
MATURITY GROUP II									
AINSWORTH SEED CO.									
2A-88	58	64	52	9/14	2.0	33	1.0		
DISCOVERY	64	70	58	9/16	2.1	33	1.0	53.9	48.8
ATLAS S-BRAND									
A280	58	65	50	9/13	1.2	29	1.0		
S-280	56	65	47	9/13	1.3	30	1.0	51.1	
CHALLENGER SEED CO.									
CSV 267	58	66	50	9/15	2.0	33	1.0		
ED. J. FUNK & SONS									
DIAMOND D-285	61	70	52	9/18	1.6	32	1.0	52.2	
SUPER CROST SC291	55	65	45	9/14	1.9	34	1.0		
GOLDEN HARVEST									
H-1260	59	67	51	9/13	1.9	31	1.0	53.4	
H-1278	63	73	53	9/21	1.4	30	1.0		
H-1285	62	72	52	9/19	1.9	33	1.0	51.6	
X-252	61	75	46	9/12	1.6	34	1.0		
X-256	61	72	51	9/11	1.6	33	1.0		
X-299	60	67	52	9/16	2.1	34	1.0		
GREAT LAKES HYBRIDS									
GL 2616	60	67	53	9/18	1.4	34	1.0		
GL 2868	61	71	51	9/16	1.7	34	1.0		
GRIFFITH SEED CO.									
PL 2010	55	66	45	9/10	1.4	29	1.0		
PL 2015	61	65	57	9/14	1.7	31	1.0		
PL 2100	63	68	59	9/12	1.4	32	1.0		
PL 3257X	68	79	58	9/13	1.5	34	1.0		
PL 8216X	54	65	42	9/13	1.5	29	1.0		
J M SCHULTZ SEED CO.									
JMS 2288	58	67	49	9/13	1.7	30	1.0	50.8	
JMS 2690	59	68	50	9/14	1.5	30	1.0		
JMS 2990	65	67	63	9/17	1.9	34	1.0		
JMS EX2400	53	57	48	9/10	1.8	32	1.0		
JMS EX2700	62	66	57	9/16	1.9	35	1.0		
LEWIS HYBRIDS									
282	56	65	48	9/14	1.8	33	1.0	50.0	47.5
MC ALLISTER SEED CO.									
MASCO BARON III	61	70	52	9/14	1.6	30	1.0		
MERSCHMAN SEEDS									
CHEYENNE II	60	67	54	9/16	2.0	35	1.0	51.0	45.4
CHICKASAW II	49	57	40	9/14	1.5	29	1.0		
MOHAVE	59	67	50	9/16	2.2	34	1.0	50.5	46.6
MOHAWK	58	71	45	9/14	1.3	29	1.0	46.7	43.2
SAUK III	62	71	52	9/16	1.9	33	1.0	52.1	
SAUK IV	62	70	53	9/18	1.7	30	1.0		
SHAWNEE IV	61	66	55	9/14	1.3	31	1.0		
PIONEER HI-BRED INTERN.									
9272	55	62	49	9/13	1.6	33	1.0	46.8	43.8
9273	66	74	59	9/15	1.5	30	1.0		
9292	58	66	50	9/17	1.5	33	1.0	48.6	45.2
9293	62	74	49	9/19	1.5	29	1.0	52.0	48.7
PUBLIC VARIETY									
ARCHER	57	67	48	9/04	1.5	34	1.0		
BSR 201	56	67	45	9/15	2.3	33	1.0	48.5	44.0
BURLISON	61	69	53	9/14	1.3	27	1.0	53.3	46.9
CENTURY 84	58	62	55	9/14	1.8	33	1.0	48.3	44.1
CHAPMAN	62	70	54	9/14	1.3	30	1.0		
CONRAD	64	67	61	9/15	1.7	32	1.0	52.9	47.2
ELGIN 87	58	65	52	9/15	2.0	31	1.0	47.3	44.6

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
HACK	54	64	43	9/12	1.3	28	1.0	46.5	41.9
IL-1	46	50	42	9/17	1.3	21	1.0		
JACK	76	79	73	9/21	2.5	41	1.0	60.0	
KENWOOD	59	67	50	9/14	1.8	34	1.0	50.1	
PRESTON	61	68	53	9/18	1.7	33	1.0	52.4	47.1
SHISSLER SEED CO.									
GR8 297	60	65	55	9/14	2.2	36	1.0	51.8	
STINE SEED FARM									
2170	56	64	48	9/14	1.5	31	1.0		
2980	59	67	50	9/16	1.9	33	1.0	52.4	49.1
TERRA INTERNATIONAL									
MEDALIST	64	69	59	9/13	2.0	33	1.0	54.9	48.7
SPRINT	64	72	55	9/20	1.7	33	1.0	53.8	48.4
WINNER	60	67	53	9/15	1.9	32	1.0		
TWIN STATES									
9280	59	65	52	9/15	2.1	35	1.0		
VORIS SEEDS									
V277	58	65	52	9/14	1.6	34	1.0	51.8	
V289	64	72	56	9/16	1.4	33	1.0	54.4	
AVERAGE	59.6	67.4	52.2	..	1.7	32	1.0	51.4	46.2
L.S.D. 10% LEVEL	6.2	3.8	7.9	..	0.4	3	..	..	..
L.S.D. 30% LEVEL	3.9	2.4	5.0	..	0.2	2	..	..	..
STD ER OF TRT MN	1.9	1.6	3.4	..	0.1	1	..	2.9	2.2

MATURITY GROUP III

AGRIGENE SEED RESEARCH									
AG134	66	68	63	9/22	1.6	36	1.0		
AG138	64	70	58	9/25	1.8	40	1.0		
AINSWORTH SEED CO.									
TITAN	64	64	64	9/25	1.7	38	1.0		
ASGROW SEED CO.									
A3205	60	68	52	9/22	1.7	34	1.0	52.8	53.2
A3322	61	66	55	9/23	1.5	32	1.0	54.7	
A3427	66	69	62	9/20	1.7	36	1.0	60.3	56.9
ATLAS S-BRAND									
A370	67	74	60	9/22	1.7	36	1.0	58.6	57.6
S-370	68	72	65	9/17	1.7	33	1.0	58.4	
S-57A	62	68	57	9/21	1.4	34	1.0	55.8	
S-62+	65	67	62	9/24	1.4	34	1.0	56.6	53.7
CHALLENGER SEED CO.									
CSV 3150	66	68	64	9/18	1.2	35	1.0		
CSV 3500	65	69	61	9/20	1.6	38	1.0		
CSV 3600	67	71	64	9/23	1.9	41	1.0		
CSV 3800	65	70	61	9/20	1.4	38	1.0		
CIBA-GEIGY SEED									
FUNK'S G 3344	61	67	54	9/20	1.8	39	1.0		
FUNK'S G 3365	65	69	61	9/19	1.9	35	1.0		
FUNK'S G 3375	58	62	54	9/22	2.0	39	1.0		
DEKALB PLANT GENETICS									
CX366	63	68	58	9/24	1.8	36	1.0	55.9	53.5
ED. J. FUNK & SONS									
AMERICANA SPIRIT	66	70	63	9/22	1.5	37	1.0		
CHAMPION	61	71	51	9/23	1.2	32	1.0	53.5	53.3
DIAMOND D-300	64	71	57	9/20	1.5	34	1.0	56.4	
DIAMOND D-301	65	69	61	9/22	1.8	40	1.0	58.8	
DIAMOND D-305	67	72	61	9/24	1.6	36	1.0	57.2	
PILGRIM	60	66	54	9/20	2.4	38	1.0		

Region III: Monmouth (MO) and Perry (PE) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average		Brand Cultivar or Blend	1990 Results							Average		
	Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr			Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr		
	Yld	Yld	Yld					Yld	Yld		Yld	Yld	Yld					Yld	Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A			Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
GOLDEN HARVEST										PIONEER HI-BRED INTERN.										
H-1303	65	71	60	9/20	1.7	36	1.0	55.9		9301	63	67	58	9/16	2.4	37	1.0	53.0	50.7	
II-1308	62	67	56	9/17	1.4	35	1.0	54.0		9302	59	65	53	9/14	1.2	33	1.0	48.2		
II-1355	67	71	63	9/24	1.8	41	1.0	56.7		9303	64	72	57	9/17	1.3	33	1.0	53.7		
II-1358	63	68	57	9/22	1.5	37	1.0			9341	67	72	62	9/21	1.7	34	1.0	56.8		
GREAT LAKES HYBRIDS										9361	63	68	59	9/21	1.8	38	1.0	53.8	52.4	
GL 3202	60	65	56	9/23	1.6	33	1.0			9381	65	72	58	9/26	1.4	34	1.0			
GL 3698	66	71	60	9/22	1.5	40	1.0			9391	65	66	63	9/25	1.7	39	1.0	58.8	57.1	
GL 3788	54	56	52	9/23	2.4	34	1.0			PUBLIC VARIETY										
GRIFFITH SEED CO.										CARTTER	59	64	54	9/19	2.6	36	1.0	51.4	48.4	
PL 2250	58	64	52	9/17	2.3	34	1.0			CHAMBERLAIN	59	63	55	9/22	2.1	40	1.2	51.4	50.5	
PL 3005	64	67	61	9/21	1.8	36	1.0			EDISON	63	67	60	9/18	1.3	33	1.0			
PL 3140	62	68	57	9/20	1.5	38	1.0			HARPER 87	57	62	52	9/20	1.7	34	1.0	50.3	50.1	
GROWMARK										HOBBIT 87	57	67	46	9/20	1.0	21	1.0	50.6	50.4	
HS 3131	64	68	59	9/21	1.7	36	1.0	55.6		IL-2	54	56	53	9/23	1.7	27	1.0			
HS 339	61	64	58	9/25	1.6	35	1.0	54.2	53.4	LINFORD	61	62	60	9/24	2.7	43	1.0	52.5		
HS 3411	64	70	57	9/25	1.8	39	1.0	57.4		PELLA 86	61	68	54	9/17	1.5	36	1.0	54.4	51.6	
HS 3542	60	66	55	9/22	1.5	36	1.0	56.9	55.8	RESNIK	60	66	54	9/18	1.4	34	1.0	54.3	54.0	
HS 3699	58	61	55	9/24	1.8	38	1.0	52.9	52.6	SHERMAN	63	64	62	9/24	3.0	36	1.0	52.4	51.6	
HS 3833	62	66	58	9/26	1.7	39	1.0	57.7		SEDEX										
INTRA-AMERICA										309	64	67	60	9/20	2.2	39	1.0			
III-01	54	57	52	9/28	3.0	41	1.0			SHISSLER SEED CO.										
J M SCHULTZ SEED CO.										GR8 368	60	64	56	9/23	1.7	33	1.0	55.1		
JMS 3290	67	73	62	9/21	1.8	39	1.0			GR8 375	62	67	58	9/24	1.9	41	1.0	52.9	52.2	
JMS 3309	63	67	58	9/21	1.7	39	1.0			GR8 385	64	69	60	9/24	1.7	41	1.0	56.3		
JMS 3609	66	68	63	9/25	1.6	37	1.0	56.7	54.5	STEWART HYBRIDS										
JMS 3788	67	72	62	9/24	1.7	37	1.0	57.2	55.6	STEWART 392	65	70	60	9/23	1.7	42	1.0			
JMS EX3400	63	71	55	9/22	1.6	33	1.0			STEWART 393	59	66	53	9/16	1.6	34	1.0			
LEWIS HYBRIDS										STEWART 395	58	62	54	9/25	2.1	38	1.0			
304	62	66	58	9/17	1.7	34	1.0			STINE SEED FARM										
326	58	65	51	9/20	2.2	33	1.0			3065	63	68	59	9/21	1.7	35	1.0	56.7		
351	63	68	59	9/22	1.7	37	1.0	56.0	54.3	3075	65	70	59	9/23	1.6	35	1.0			
367	68	74	63	9/24	1.6	39	1.0			STONE SEED FARMS										
LYNKs SEEDS										SE-305	64	67	61	9/23	1.4	37	1.0			
5303	67	72	63	9/17	2.0	35	1.0	54.8		SE-306	61	70	53	9/26	1.4	35	1.0			
MC ALLISTER SEED CO.										TERRA INTERNATIONAL										
MASCO DURANGO	66	70	62	9/24	1.9	43	1.0			CYCLE	64	68	60	9/22	1.5	35	1.0	56.4	54.4	
MASCO OMEGA	63	68	58	9/21	1.3	37	1.0			FINALIST	60	66	54	9/20	1.3	34	1.0			
MASCO RECYSTER	66	73	60	9/25	1.7	38	1.0			VICTORY	68	72	63	9/23	1.8	38	1.0			
MASCO SQUIRE	64	66	62	9/24	1.7	34	1.0			TWIN STATES										
MERSCHMAN SEEDS										9330	59	66	51	9/25	1.7	34	1.0			
EISENHOWER II	63	66	59	9/25	2.3	39	1.0	56.1		9350	62	68	55	9/22	1.8	39	1.0			
FILLMORE II	63	69	57	9/22	2.0	36	1.0	54.8		9380	67	72	63	9/23	2.0	41	1.0			
GARFIELD	63	65	62	9/23	1.4	37	1.0	56.7		UPIIOFF SEEDS										
HARRISON	62	65	59	9/15	1.9	35	1.0			3100	63	66	60	9/18	1.8	34	1.0	54.8	51.9	
HOOVER II	67	72	61	9/21	1.8	33	1.0	54.8		3400	62	68	57	9/22	2.3	37	1.0	54.5	51.9	
KENNEDY III	66	70	62	9/21	1.5	34	1.0	59.8		3600	65	71	60	9/24	1.6	37	1.0	55.8	53.6	
MADISON II	56	66	46	9/18	2.4	38	1.2	50.3		VORIS SEEDS										
ROOSEVELT	64	70	58	9/23	1.6	38	1.0			V309	63	68	59	9/16	1.8	37	1.0	55.8		
TRUMAN II	61	64	58	9/20	2.7	37	1.0	55.1	53.0	V357	60	67	53	9/22	1.5	32	1.0	52.5		
TRUMAN III	66	68	65	9/22	2.0	36	1.0	58.8		V363	66	70	61	9/19	1.2	35	1.0			
WASHINGTON VI	68	72	64	9/26	1.6	37	1.0	57.0	54.3	WILKEN SEED GRAINS										
MIDWEST OILSEEDS										3477	67	71	63	9/26	1.7	41	1.0	57.3		
3090	60	63	57	9/25	2.2	39	1.0	55.0	54.9	3484	65	70	59	9/25	1.5	37	1.0	56.2		
3090E	62	65	58	9/23	1.9	36	1.0	58.1	56.8	3621CN	64	70	57	9/19	1.7	37	1.0			
3110	66	76	56	9/23	2.2	35	1.0			WILSON HYBRIDS										
3220	61	66	57	9/17	1.4	32	1.0			3165	63	68	58	9/17	1.4	36	1.0			
NORTHROP KING CO.										3300	63	66	60	9/21	1.4	33	1.0			
S36-36	64	69	60	9/22	1.8	36	1.0	57.0	54.5											

Region III: Monmouth (MO) and Perry (PE) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

MATURITY GROUP III, continued

AVERAGE	63.0	68.0	58.4	..	1.7	36	1.0	55.3	53.4
L.S.D. 10% LEVEL	4.8	3.8	5.7	..	0.4	3	0.1	..	..
L.S.D. 30% LEVEL	3.0	2.4	3.6	..	0.2	2	0.1	..	..
STD ER OF TRT MN	1.5	1.6	2.4	..	0.1	1	0.0	2.5	2.2

MATURITY GROUP IV

PIONEER HI-BRED INTERN.

9442	59	65	53	9/30	1.4	34	1.0		
------	----	----	----	------	-----	----	-----	--	--

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(MO)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

PUBLIC VARIETY

FLYER	61	69	52	9/25	1.7	34	1.0	52.0	
HAMILTON	67	71	64	9/28	2.2	36	1.0	54.6	
RIPLEY	59	61	56	9/28	1.4	26	1.0	50.6	46.9
SPENCER	56	61	50	10/01	1.5	37	1.0	47.3	
UNION	59	58	59	9/30	2.4	44	1.0	48.0	45.0
AVERAGE	60.0	64.2	56.0	..	1.8	35	1.0	50.5	46.0
L.S.D. 10% LEVEL	4.3	3.4	5.4	..	0.4	3	..	..	..
L.S.D. 30% LEVEL	2.7	2.0	3.3	..	0.3	2	..	..	..
STD ER OF TRT MN	1.3	1.3	2.2	..	0.1	1	..	3.0	1.3

Region IV: Urbana (UR) and Perry (PE) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

MATURITY GROUP II

AINSWORTH SEED CO.

2A-66	59	65	53	9/16	1.2	29	1.0		
2A-88	57	62	52	9/18	1.8	34	1.0		

ATLAS S-BRAND

A280	58	66	50	9/14	1.0	29	1.0		
S-280	56	64	47	9/14	1.1	30	1.0	56.3	

CALLAHAN SEEDS

1288X	60	68	52	9/14	1.0	26	1.0		
9270X	66	70	62	9/15	1.4	31	1.0		

CHALLENGER SEED CO.

CSV 267	56	63	50	9/17	1.9	34	1.0		
---------	----	----	----	------	-----	----	-----	--	--

ED. J. FUNK & SONS

DIAMOND D-285	59	66	52	9/19	1.3	31	1.0	57.9	
S. CROST SC291	56	68	45	9/17	1.8	34	1.0		

GOLDEN HARVEST

H-1260	62	73	51	9/14	1.6	31	1.0	59.2	49.8
H-1278	61	70	53	9/19	1.0	29	1.0		
H-1285	61	70	52	9/15	1.5	32	1.0	56.3	47.6
X-252	56	66	46	9/12	1.2	34	1.0		
X-256	62	73	51	9/13	1.1	33	1.0		
X-299	58	64	52	9/20	2.0	34	1.0		

GREAT LAKES HYBRIDS

GL 2616	59	66	53	9/19	1.3	33	1.0		
GL 2868	60	69	51	9/19	1.7	32	1.0	58.0	

GRIFFITH SEED CO.

PL 2010	55	65	45	9/11	1.1	29	1.0		
PL 2015	59	61	57	9/15	1.2	30	1.0		
PL 2100	64	69	59	9/16	1.0	32	1.0		
PL 3257X	62	65	58	9/13	1.0	35	1.0		
PL 8216X	53	65	42	9/13	1.2	30	1.0		

J M SCHULTZ SEED CO.

JMS 2288	58	66	49	9/14	1.4	30	1.0	56.2	
----------	----	----	----	------	-----	----	-----	------	--

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A

J M SCHULTZ SEED CO. (con't.)

JMS 2690	57	64	50	9/14	1.1	30	1.0		
JMS 2990	66	70	63	9/18	1.8	34	1.0		
JMS EX2400	55	62	48	9/12	1.5	34	1.0		
JMS EX2700	60	63	57	9/16	1.8	36	1.0		

LEWIS HYBRIDS

282	54	59	48	9/17	1.8	32	1.0	53.4	45.6
-----	----	----	----	------	-----	----	-----	------	------

MERSCHMAN SEEDS

CHEYENNE II	60	67	54	9/16	1.7	34	1.0	55.3	46.4
CHICKASAW II	50	60	40	9/14	1.2	30	1.0		
MOHAVE	59	68	50	9/14	1.8	34	1.0	57.9	49.0
MOHAWK	55	65	45	9/15	1.2	29	1.0	53.5	45.2
SAUK III	61	70	52	9/17	1.6	31	1.0	59.1	
SAUK IV	58	63	53	9/18	1.2	31	1.0		
SHAWNEE IV	60	65	55	9/14	1.2	31	1.0		

NOBLEBEAR

NB 2780	61	70	52	9/16	1.0	32	1.0		
NB 2905	59	67	50	9/17	1.9	33	1.0		
NB 3006	58	63	53	9/15	1.5	32	1.0		

PIONEER HI-BRED INTERN.

9272	57	65	49	9/14	1.3	32	1.0	53.6	44.4
9273	64	70	59	9/15	1.2	30	1.0		
9292	59	68	50	9/18	1.0	33	1.0	54.9	46.1
9293	56	62	49	9/18	1.1	28	1.0	55.1	46.9

PUBLIC VARIETY

ARCHER	55	61	48	9/07	1.4	33	1.0		
BSR 201	53	62	45	9/13	1.9	31	1.0	53.4	45.4
BURLISON	62	71	53	9/15	1.2	28	1.0	57.8	45.8
CENTURY 84	57	60	55	9/17	1.2	34	1.0	52.0	43.1
CHAPMAN	61	68	54	9/16	1.3	30	1.0		
CONRAD	67	73	61	9/15	1.2	33	1.0	62.3	49.5
ELGIN 87	59	66	52	9/14	1.4	31	1.0	56.0	46.8
HACK	51	59	43	9/13	1.1	28	1.0	50.3	41.3
IL-1	46	50	42	9/18	1.3	22	1.0		
JACK	72	71	73	9/23	2.2	41	1.0	63.8	

Region IV: Urbana (UR) and Perry (PE) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
PUBLIC VARIETY (con't.)									
KENWOOD	59	69	50	9/14	1.5	33	1.0	55.4	
PRESTON	59	64	53	9/14	1.3	33	1.0	55.7	46.3
SEEDMAKERS									
38092C	57	66	49	9/16	1.2	34	1.0	54.3	46.8
SHISSLER SEED CO.									
GR8 297	58	61	55	9/16	2.1	34	1.0	57.5	
STINE SEED FARM									
2170	54	60	48	9/13	1.0	32	1.0		
2980	58	66	50	9/18	1.5	31	1.0	57.9	49.7
TERRA INTERNATIONAL									
MEDALIST	65	71	59	9/12	1.5	33	1.0	62.0	50.1
SPRINT	65	75	55	9/17	1.4	34	1.0	58.8	49.6
WINNER	62	70	53	9/16	1.5	32	1.0		
TRISLER SEED FARMS									
TRISOY 221	59	65	53	9/14	1.6	33	1.0	54.4	46.4
TRISOY 262	61	70	51	9/22	1.7	35	1.0	56.3	46.7
TRISOY 271	65	70	59	9/21	1.1	30	1.0	58.6	47.7
TRISOY 281	60	66	54	9/13	1.5	34	1.0	55.9	45.5
TRISOY 291	59	66	53	9/17	2.0	33	1.0		
TRISOY 294	63	69	57	9/15	1.5	32	1.0		
TWIN STATES									
9280	60	68	52	9/17	2.0	35	1.0		
VORIS SEEDS									
V277	58	65	52	9/14	1.4	33	1.0	57.4	
V289	62	69	56	9/15	1.2	32	1.0	59.3	
AVERAGE	59.1	66.3	52.2	..	1.4	32	1.0	56.6	46.7
L.S.D. 10% LEVEL	7.3	6.7	7.9	..	0.4	3	..	..	..
L.S.D. 30% LEVEL	4.6	4.2	5.0	..	0.2	2	..	..	..
STD ER OF TRT MN	2.2	2.9	3.4	..	0.1	1	..	2.9	2.2

MATURITY GROUP III

AGRIGENE SEED RESEARCH									
AG134	65	67	63	9/21	1.5	37	1.0		
AG138	64	70	58	9/26	1.8	41	1.0		
AINSWORTH SEED CO.									
3A-21	65	66	63	9/21	1.7	36	1.0	61.6	
VANGUARD	62	66	58	9/24	1.3	39	1.0		
ASGROW SEED CO.									
A3205	59	66	52	9/23	1.5	35	1.2	55.6	49.9
A3322	65	74	55	9/25	1.2	33	1.0	61.0	
A3415	58	63	53	9/22	1.9	40	1.0	57.7	50.0
A3427	65	67	62	9/21	1.5	35	1.0	63.4	53.3
A3733	66	69	64	9/30	1.1	33	1.0	61.7	53.7
A3935	67	71	63	9/26	1.7	39	1.0	63.0	53.8
ATLAS S-BRAND									
A370	64	68	60	9/22	1.7	36	1.0	62.2	54.5
S-370	68	71	65	9/17	1.7	35	1.0	64.7	
S-57A	60	64	57	9/22	1.4	35	1.0	60.9	
S-62+	66	69	62	9/24	1.7	36	1.0	60.1	51.5
BROWN SEEDS									
ARISE 360	63	65	61	9/25	1.9	40	1.0		
CALLAHAN SEEDS									
1330X	69	73	64	9/18	1.2	34	1.0	64.5	
1365X	66	74	58	9/20	1.3	36	1.0		
7300	66	68	64	9/17	1.8	36	1.0	60.8	51.9
7390	65	71	59	9/24	1.6	38	1.0	60.4	52.6

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
CALLAHAN SEEDS (con't)									
9320N	61	64	58	9/20	2.0	37	1.2		
9350	66	73	60	9/18	2.3	36	1.0	62.6	54.2
CARGILL									
325	66	73	60	9/19	1.3	35	1.0		
CHALLENGER SEED CO.									
CSV 3150	67	70	64	9/18	1.2	36	1.0		
CSV 3500	65	70	61	9/22	1.6	39	1.0		
CSV 3600	67	71	64	9/23	1.8	41	1.0		
CSV 3800	65	70	61	9/22	1.5	40	1.0		
CIBA-GEIGY SEED									
FUNK'S G 3344	60	66	54	9/21	1.6	38	1.0		
FUNK'S G 3365	66	71	61	9/21	1.5	36	1.0		
FUNK'S G 3375	61	68	54	9/26	2.0	38	1.0		
FUNK'S G 3385	68	77	60	9/27	1.6	38	1.0		
FUNK'S G 3388	70	74	66	9/26	1.6	38	1.0		
DEKALB PLANT GENETICS									
CX366	65	72	58	9/24	1.7	39	1.0	61.3	52.8
ED. J. FUNK & SONS									
AMERICANA SPIRIT	66	68	63	9/26	1.3	38	1.0		
CHAMPION	59	67	51	9/24	1.3	32	1.0	57.7	51.7
DIAMOND D-300	65	73	57	9/22	1.6	35	1.0	60.8	
DIAMOND D-301	68	74	61	9/23	1.7	41	1.0	62.0	
DIAMOND D-305	67	73	61	9/26	1.5	36	1.0	60.9	
PILGRIM	59	64	54	9/21	2.5	40	1.0		
GOLDEN HARVEST									
H-1303	66	72	60	9/22	1.7	38	1.0	59.9	52.3
H-1308	63	71	56	9/19	1.6	38	1.0	59.8	
H-1355	68	74	63	9/25	1.9	41	1.0	62.9	
H-1358	63	69	57	9/25	1.3	37	1.0		
GREAT LAKES HYBRIDS									
GL 3202	62	68	56	9/24	1.6	34	1.0	58.4	
GL 3698	67	74	60	9/22	1.6	40	1.0		
GL 3788	57	62	52	9/22	2.3	36	1.0		
GRIFFITH SEED CO.									
PL 2250	58	64	52	9/17	2.6	35	1.0		
PL 3005	65	68	61	9/20	1.5	37	1.0		
PL 3140	63	68	57	9/21	1.5	37	1.0		
GROWMARK									
HS 3131	65	71	59	9/21	1.4	37	1.0	61.5	
HS 3411	64	71	57	9/26	1.6	40	1.0	61.8	
HS 3542	59	62	55	9/22	1.6	38	1.0	57.2	50.5
J M SCHULTZ SEED CO.									
JMS 3290	67	72	62	9/22	1.9	42	1.0		
JMS 3309	63	67	58	9/22	1.5	39	1.0		
JMS 3609	65	66	63	9/26	1.5	38	1.0	60.8	53.1
JMS 3788	70	79	62	9/25	1.7	38	1.0	61.2	53.2
JMS EX3400	63	72	55	9/23	1.5	34	1.0		
JACQUES SEED CO.									
EX 89393	64	68	60	9/28	1.4	37	1.0		
J-357	62	68	56	9/22	1.1	36	1.0	57.9	
J-396	63	68	57	9/27	1.8	39	1.0	59.1	
KITCHEN SEED CO.									
KSC 330C	66	69	64	9/25	1.5	38	1.0		
KSC 375	63	68	58	9/18	1.5	37	1.0	58.9	51.5
KSC 385	65	69	60	9/23	1.5	41	1.0	59.0	51.9
LEWIS HYBRIDS									
326	59	67	51	9/22	2.3	35	1.0		
351	61	64	59	9/23	1.7	37	1.0	60.2	53.2

Region IV: Urbana (UR) and Perry (PE) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
LEWIS HYBRIDS (con't)									
367	69	75	63	9/26	1.6	40	1.0	62.1	53.3
LYNKS SEEDS									
5303	66	70	63	9/18	2.2	35	1.0	61.0	
MERSCHMAN SEEDS									
EISENHOWER II	62	66	59	9/28	2.1	38	1.0	59.0	
FILLMORE II	64	70	57	9/23	2.0	39	1.0	59.7	
GARFIELD	64	65	62	9/22	1.4	38	1.0	60.3	
HARRISON	63	68	59	9/16	1.6	37	1.0		
HOOVER II	67	72	61	9/21	1.9	34	1.0	61.6	
KENNEDY III	66	69	62	9/21	1.6	36	1.0	64.4	
MADISON II	57	68	46	9/19	2.3	39	1.2	55.9	
ROOSEVELT	62	66	58	9/23	1.7	37	1.0		
TRUMAN II	63	68	58	9/17	2.4	38	1.0	57.8	50.8
TRUMAN III	69	74	65	9/23	1.8	36	1.0	63.3	
WASHINGTON VI	67	70	64	9/28	1.6	38	1.0	60.5	52.7
MIDWEST OILSEEDS									
3090	64	70	57	9/26	1.9	38	1.0	60.1	54.0
3090E	65	72	58	9/26	1.7	38	1.0	60.1	53.8
3110	66	76	56	9/22	2.1	37	1.0		
3220	61	66	57	9/16	1.4	33	1.0		
NOBLEBEAR									
NB 3250	59	63	55	9/21	1.8	39	1.0	58.1	50.8
NB 3350	64	71	56	9/23	1.5	33	1.0	60.7	51.4
NBX 750-3	66	71	60	9/24	1.7	44	1.0	60.1	
NORTHROP KING CO.									
S36-36	64	68	60	9/23	1.6	36	1.0	59.8	52.0
PIONEER HI-BRED INTERN.									
9301	67	76	58	9/17	2.1	38	1.0	60.9	52.4
9302	60	66	53	9/16	1.2	35	1.0	55.0	
9303	65	73	57	9/16	1.4	32	1.0	59.3	
9341	66	70	62	9/22	1.6	35	1.0	60.1	
9361	64	69	59	9/24	1.7	38	1.0	60.1	52.9
9381	63	68	58	9/27	1.4	34	1.0		
9391	65	66	63	9/27	1.8	39	1.0	62.3	54.8
PUBLIC VARIETY									
CARTTER	60	67	54	9/20	2.5	38	1.0	56.4	48.1
CHAMBERLAIN	58	61	55	9/23	2.3	40	1.2	56.2	49.7
EDISON	63	67	60	9/20	1.2	34	1.0		
HARPER 87	59	65	52	9/22	1.7	35	1.0	57.1	50.1
HOBBIT 87	55	64	46	9/22	1.0	20	1.0	56.1	48.7
IL-2	55	57	53	9/23	1.8	31	1.0		
KUNITZ	56	59	53	9/23	2.3	43	1.0		
LINFORD	63	66	60	9/27	2.6	43	1.0	57.7	
PELLA 86	60	67	54	9/16	1.6	36	1.0	58.1	49.9
RESNIK	59	63	54	9/19	1.3	34	1.0	59.7	52.2
SHERMAN	64	67	62	9/24	2.8	36	1.0	58.4	51.2
WILLIAMS 82	59	64	54	9/27	1.9	41	1.0	53.4	48.2
SEED EX									
309	66	71	60	9/20	1.9	37	1.0		
SHISSLER SEED CO.									
GR8 368	63	70	56	9/23	1.5	34	1.0	61.2	
GR8 375	61	63	58	9/26	1.9	42	1.2	57.5	
GR8 385	66	73	60	9/25	1.6	42	1.0	59.8	52.5
STEWART HYBRIDS									
STEWART 315	56	58	54	9/25	2.3	43	1.0		
STEWART 392	64	68	60	9/23	1.5	42	1.0		
STEWART 393	59	66	53	9/17	1.5	36	1.0		
STEWART 395	60	66	54	9/25	2.1	40	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(UR)	(PE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
STINE SEED FARM									
3065	64	70	59	9/21	1.5	36	1.0	62.7	
3075	68	77	59	9/26	1.6	36	1.0		
STONE SEED FARMS									
SE-305	66	72	61	9/26	1.6	38	1.0		
SE-306	61	69	53	9/25	1.4	35	1.0	55.8	49.7
SE-310	67	74	60	9/25	1.7	43	1.0	60.7	53.7
TERRA INTERNATIONAL									
CYCLE	61	63	60	9/23	1.6	38	1.0	58.5	52.2
FINALIST	65	75	54	9/19	1.3	33	1.0		
VICTORY	67	71	63	9/24	1.8	41	1.0		
TRISLER SEED FARMS									
TRISOY 303	66	72	60	9/16	1.9	36	1.0		
TRISOY 364	62	66	58	9/25	1.9	41	1.0	58.6	50.9
TRISOY 3716	64	69	59	9/21	1.6	38	1.0	61.2	53.1
TRISOY 377	60	68	52	9/25	1.4	33	1.0	55.7	49.4
TRISOY 398	62	66	59	9/19	1.0	34	1.0		
TWIN STATES									
9330	61	70	51	9/25	1.5	35	1.0		
9350	62	68	55	9/24	1.9	41	1.0		
9380	68	73	63	9/24	1.7	42	1.0		
UPHOFF SEEDS									
3100	65	70	60	9/20	1.4	34	1.0	61.5	53.0
3400	65	73	57	9/23	2.3	38	1.0	57.7	49.6
3600	63	66	60	9/26	1.7	38	1.0	59.2	52.0
VORIS SEEDS									
V309	64	69	59	9/16	2.1	37	1.0	61.8	
V357	61	68	53	9/21	1.2	33	1.0	58.9	
V363	64	67	61	9/18	1.1	35	1.0		
V380	69	75	63	9/23	1.4	38	1.0		
WILKEN SEED GRAINS									
3477	66	69	63	9/27	1.6	42	1.0	60.6	
3484	66	74	59	9/26	1.6	38	1.0	60.3	
3621CN	61	65	57	9/22	1.4	38	1.0		
AVERAGE	63.6	68.9	58.4		1.7	37	1.0	59.9	51.8
L.S.D. 10% LEVEL	6.0	6.3	5.7		0.4	3	0.1		
L.S.D. 30% LEVEL	3.8	4.0	3.6		0.2	2	0.1		
STD ER OF TRT MN	1.8	2.7	2.4		0.1	1	0.0	2.3	1.7
MATURITY GROUP IV									
NORTHROP KING CO.									
S42-30	62	67	57	10/01	1.2	34	1.0		
S42-40	59	62	57	10/01	1.5	36	1.0	53.8	46.4
PIONEER HI-BRED INTERN.									
9442	58	64	53	10/01	1.3	34	1.0		
PUBLIC VARIETY									
FLYER	59	65	52	9/25	1.4	34	1.0	54.8	46.9
HAMILTON	68	71	64	9/28	1.7	36	1.0	59.7	51.4
RIPLEY	61	65	56	9/30	1.2	27	1.0	55.9	48.4
SPENCER	57	65	50	10/03	1.2	36	1.0	50.7	
UNION	59	59	59	10/03	2.2	45	1.0	52.3	44.7
AVERAGE	60.4	64.7	56.0		1.5	35	1.0	54.5	47.5
L.S.D. 10% LEVEL	5.7	6.3	5.4		0.4	4			
L.S.D. 30% LEVEL	3.5	3.9	3.3		0.3	2			
STD ER OF TRT MN	1.7	2.5	2.2		0.1	1		3.1	2.5

Region V: Brownstown (BR) and Belleville (BE) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(BR)	(BE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
MATURITY GROUP III									
ASGROW SEED CO.									
A3415	33	12	55	9/25	1.3	28	1.0	35.2	36.6
A3733	35	21	48	9/30	1.0	23	1.0	38.6	38.5
A3935	30	16	45	9/26	1.0	26	1.5	32.9	32.1
ATLAS S-BRAND									
A370	30	17	42	9/21	1.0	25	1.0		
S-390	34	17	50	9/27	1.0	25	1.3	37.5	
S-57A	26	12	39	9/22	1.0	25	1.3		
S-62+	32	17	46	9/27	1.0	25	1.0	34.3	33.8
S-67	32	18	46	9/26	1.0	26	1.2	32.8	32.9
BAKER SEED CO.									
3900	30	17	43	9/25	1.0	26	1.0		
3905	30	17	43	9/29	1.0	27	1.0		
BERGMANN-TAYLOR SEEDS									
BT 371	31	16	46	9/28	1.1	29	1.0		
BT 379	33	17	49	9/27	1.0	29	1.0	35.9	35.2
BT 399C	31	15	47	9/27	1.0	25	1.5	31.9	34.3
BROWN SEEDS									
ARISE 341	22	11	32	9/21	1.0	21	2.7		
CALLAHAN SEEDS									
1365X	29	15	43	9/23	1.0	23	1.5		
1380NX	33	13	53	9/26	1.2	25	2.0		
1390NX	32	18	46	9/26	1.0	26	1.5		
7390	30	18	41	9/27	1.1	27	1.3	31.8	32.5
CARGILL									
345	28	15	41	9/20	1.0	25	1.7		
CHALLENGER SEED CO.									
CSV 3600	31	17	45	9/27	1.0	29	1.0		
CSV 3800	31	15	47	9/21	1.0	24	1.8		
CIBA-GEIGY SEED									
FUNK'S G 3344	29	13	45	9/23	1.0	26	1.8		
FUNK'S G 3375	34	19	49	9/25	1.2	28	1.0		
FUNK'S G 3385	30	19	42	9/26	1.0	25	1.5		
FUNK'S G 3388	30	14	47	9/27	1.0	25	1.7		
ED. J. FUNK & SONS									
AMER. CONQUEST	32	12	51	9/24	1.1	27	1.5		
AMERICAN SPIRIT	34	16	52	9/24	1.0	26	1.7		
DIAMOND D-301	31	17	44	9/28	1.0	29	1.2	32.7	
DIAMOND D-305	31	19	44	9/28	1.0	26	1.3	34.8	
GING									
GN-3100	30	13	47	9/22	1.0	25	1.8		
GROWMARK									
HS 339	29	15	44	9/28	1.0	23	1.0	34.3	32.7
IIS 3411	33	17	48	9/24	1.0	24	1.5	34.6	
HS 3542	32	18	46	9/28	1.0	25	1.0	32.6	33.3
HS 3699	32	17	47	9/25	1.1	26	1.0	37.4	35.5
HS 3833	35	22	48	9/28	1.0	27	1.0	40.2	
HOBLIT SEED CO.									
HB 360	27	11	42	9/22	1.0	25	1.7	29.1	
HB 370	32	18	45	9/25	1.0	29	1.0	34.4	
HYPERFORMER SEED CO.									
360	33	20	47	9/27	1.0	25	1.2		
388	27	11	43	9/22	1.0	26	2.0		
HB89-88235	31	16	46	9/27	1.2	27	1.2		
HB90-332	27	19	36	9/22	1.0	24	1.0		
HB90-391	34	15	52	9/29	1.3	28	1.5		
J M SCHULTZ SEED CO.									
JMS 3609	33	16	50	9/29	1.0	25	1.5	30.8	33.3

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(BR)	(BE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
J M SCHULTZ SEED CO. (con't.)									
JMS 3788	32	18	46	9/26	1.0	25	1.3	32.7	33.6
JMS EX3400	19	8	30	9/20	1.0	20	3.0		
KAISER ESTECH									
KE 358	30	17	44	9/26	1.1	30	1.3		
LEWIS HYBRIDS									
388	32	17	48	9/26	1.0	26	1.7	32.7	
LYNKS SEEDS									
5376	35	14	55	9/26	1.0	26	1.5	35.0	
MERSCHMAN SEEDS									
EISENHOWER II	32	17	47	9/30	1.0	27	1.2	37.6	
ROOSEVELT	26	14	38	9/24	1.0	23	1.2		
WASHINGTON VI	30	17	43	9/28	1.0	26	1.5	33.2	33.7
MIDWEST OILSEEDS									
3090	33	19	47	9/29	1.1	26	1.2	37.4	37.4
3090E	36	23	50	9/29	1.0	27	1.3	39.9	38.0
NOBLEBEAR									
NB 3636	32	13	51	9/21	1.0	25	1.8		
NB 3736	31	11	50	9/26	1.3	26	1.3		
NBX 750-3	30	19	40	9/26	1.1	29	1.0		
NBX 890-3	31	16	46	9/27	1.0	25	1.5	33.2	
PIONEER HI-BRED INTERN.									
9301	31	16	45	9/19	1.2	27	1.2	30.4	29.2
9303	24	12	35	9/19	1.0	21	2.5	26.8	
9341	28	17	38	9/24	1.0	22	1.3	28.9	
9361	29	16	42	9/21	1.2	25	1.5	30.1	29.8
9381	27	13	41	9/24	1.1	23	1.0		
9391	31	20	41	9/28	1.0	27	1.0	36.6	36.1
PRINCETON FARMS									
PF 3787	36	20	52	9/27	1.0	26	1.0	37.5	34.4
PF 3889	29	15	42	9/25	1.0	26	1.0	31.3	
PUBLIC VARIETY									
CARTER	28	11	46	9/20	1.3	24	1.8	27.7	28.8
CHAMBERLAIN	30	13	48	9/25	1.1	28	1.7	34.2	32.2
EDISON	28	15	42	9/25	1.0	23	1.0		
FAYETTE	32	15	49	9/29	1.3	30	1.5	34.1	35.8
HARPER 87	30	18	41	9/24	1.0	22	1.3	32.3	31.1
HOBBIT 87	25	13	37	9/24	1.0	16	1.0	23.2	22.4
IL-2	27	14	41	9/26	1.0	15	1.2		
KUNITZ	28	14	42	9/25	1.3	27	1.5		
LINFORD	33	16	50	9/29	1.5	30	1.5	36.8	
PELLA 86	28	13	43	9/22	1.1	26	1.5	28.1	28.1
RESNIK	27	14	40	9/22	1.0	23	1.0	29.8	29.9
SHERMAN	27	14	40	9/23	1.1	22	2.0	32.7	32.3
WILLIAMS 82	30	14	46	9/26	1.2	28	1.0	34.6	34.3
SEDEX									
391	30	16	44	9/27	1.1	26	1.3	34.3	34.1
395	29	14	44	9/22	1.0	25	1.7		
TERRA INTERNATIONAL									
CYCLE	32	20	45	9/26	1.0	24	1.2	35.5	34.6
FINALIST	27	16	38	9/26	1.0	23	1.0		
VICTORY	32	19	46	9/23	1.0	28	1.2		
TRISLER SEED FARMS									
TRISOY 361	33	20	46	9/28	1.0	24	1.0	36.6	35.9
TRISOY 364	34	20	49	9/28	1.0	30	1.2	34.8	34.2
TRISOY 3716	31	16	46	9/28	1.0	25	1.5	31.8	33.3
TRISOY 377	30	16	44	9/27	1.0	21	1.0	32.6	
TRISOY 381	29	12	46	9/24	1.1	26	2.2	31.9	
TRISOY 398	28	15	42	9/21	1.0	24	1.5		

Region V: Brownstown (BR) and Belleville (BE) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(BR)	(BE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
TWIN STATES									
9380	30	16	44	9/28	1.0	30	1.0		
UPHOFF SEEDS									
3600	32	18	46	9/25	1.0	27	1.0	35.4	35.0
VORIS SEEDS									
V363	28	14	41	9/21	1.0	24	1.3		
V380	34	16	51	9/27	1.0	26	1.5		
WILDY SEED									
WS 3508	33	16	50	9/26	1.0	25	1.5	35.0	36.3
WS 3588	32	18	46	9/28	1.0	30	1.2	32.1	32.4
WS 3838	34	19	49	9/30	1.2	30	1.0	37.8	37.6
AVERAGE	30.4	15.9	45.0		1.1	26	1.4	33.6	33.4
L.S.D. 10% LEVEL	5.6	3.1	7.2		0.2	3	0.4		
L.S.D. 30% LEVEL	3.5	2.0	4.5		0.1	2	0.2		
STD ER OF TRT MN	1.7	1.4	3.1		0.1	1	0.1	3.3	3.1

MATURITY GROUP IV

ASGROW SEED CO.									
A4009	31	18	43	10/01	1.0	27	1.3	34.4	35.2
A4393	35	22	48	10/01	1.0	29	1.0	42.8	39.9
A4595	33	21	45	9/29	1.1	32	1.0	40.2	38.6
A4715	42	28	55	10/09	1.2	32	1.0		
BELLEVILLE SEED HOUSE									
BSH 420	29	15	42	9/23	1.0	26	1.3	32.8	
BSH 440	39	25	52	10/07	1.7	37	1.0	45.0	41.2
BERGMANN-TAYLOR SEEDS									
BT 401C	27	15	39	9/25	1.0	28	1.0		
BT 409CB	29	19	39	9/26	1.1	32	1.0	35.9	36.4
BT 471	33	19	46	10/01	1.3	29	1.0		
BT 500C	40	28	51	10/10	1.9	30	1.0	43.3	
CALLAHAN SEEDS									
1410X	34	21	47	9/22	1.0	26	1.2	38.5	
8464	33	19	47	9/28	1.3	31	1.2	41.5	37.9
9480X	32	21	42	10/03	1.2	32	1.0	39.3	
DEKALB PLANT GENETICS									
CX415	33	19	47	9/26	1.3	32	1.0	38.5	36.5
CX458	31	20	42	9/27	1.2	29	1.0	38.6	37.4
ED. J. FUNK & SONS									
AMER. JACKSON II	37	22	53	10/03	1.4	31	1.0		
SUPER CROST SC410	30	19	41	9/28	1.1	28	1.0		
GING									
GN-4110	27	18	37	9/24	1.1	32	1.0		
GROWMARK									
HS 4103	34	17	51	9/29	1.0	27	1.0		
HS 4602	34	21	47	10/03	1.2	29	1.0	39.5	
HYPERFORMER SEED CO.									
401	38	24	52	10/05	1.5	37	1.0		
IIB90-400	31	18	45	9/23	1.0	26	1.0		
IIB90-472	31	19	44	10/03	1.3	31	1.0		
J M SCHULTZ SEED CO.									
JMS 4109	33	20	45	9/30	1.1	30	1.3		
JMS 4688	34	20	48	9/29	1.3	32	1.2	42.3	40.6
JMS EX4400	32	20	44	9/26	1.6	31	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(BR)	(BE)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
JACQUES SEED CO.									
J-442	34	20	47	9/29	1.4	31	1.0	40.8	38.9
KAISER ESTECH									
KE 398	32	21	43	9/27	1.2	30	1.0	34.0	
KE 416	34	22	46	9/27	1.1	30	1.0	40.5	37.2
MERSCHMAN SEEDS									
ATLANTA II	34	21	47	9/30	1.3	33	1.0	39.8	38.8
BOSTON III	32	18	46	9/27	1.1	29	1.7	36.4	
DALLAS	39	25	53	10/06	1.6	36	1.0	45.5	42.1
DENVER III	38	23	52	10/03	1.4	36	1.0	45.2	42.0
MEMPHIS II	34	21	47	9/27	1.2	32	1.2	39.8	38.3
NORTHROP KING CO.									
S42-40	31	17	45	9/27	1.0	28	1.0	34.9	35.0
S44-77	36	23	50	9/27	1.3	33	1.0	43.9	41.5
S48-84	30	18	42	10/03	1.3	30	1.0		
PIONEER HI-BRED INTERN.									
9402	30	15	44	9/24	1.0	28	1.7	32.0	32.5
9411	33	22	44	9/25	1.2	30	1.0	40.4	
9442	31	18	43	9/30	1.0	26	1.0	38.5	38.1
9461	30	16	43	9/28	1.0	24	1.0		
PRINCETON FARMS									
PF 4588	32	20	44	9/27	1.2	32	1.0	39.0	37.0
PUBLIC VARIETY									
FLYER	30	17	43	9/24	1.0	28	1.0	36.2	33.6
HAMILTON	31	18	44	9/26	1.1	25	1.0	35.1	34.9
PENNYRILE	38	25	50	10/05	1.2	32	1.0	39.6	37.6
PHARAOH	39	27	51	10/10	1.5	27	1.0	45.6	
PYRAMID	34	20	48	10/03	1.4	33	1.0	39.5	39.6
RIPLEY	33	14	51	10/03	1.0	19	1.0	37.4	36.5
SPENCER	28	16	41	9/28	1.0	27	1.0	36.8	35.2
UNION	30	17	44	9/22	1.5	33	1.2	37.1	35.1
RIDGWAY SEED CO.									
JADER 4881	31	20	43	10/10	1.1	28	1.0		
SEEDEX									
456	33	22	44	9/28	1.3	31	1.0		
STINE SEED FARM									
4150	32	20	44	9/29	1.3	30	1.0	39.6	
4880	33	21	45	9/25	1.3	32	1.0	42.6	40.4
TERRA INTERNATIONAL									
COMPETITOR	40	26	54	10/04	1.7	37	1.0	46.2	42.3
TRISLER SEED FARMS									
TRISOY 475	29	16	42	9/26	1.1	29	1.5	36.8	35.9
TRISOY 477	28	16	41	9/25	1.0	31	1.0	35.8	35.9
TWIN STATES									
9410	29	17	42	9/24	1.1	31	1.0		
9420	28	19	38	9/24	1.0	30	1.3		
UPHOFF SEEDS									
4300	37	22	52	9/26	1.6	34	1.0	40.9	
VORIS SEEDS									
V447	34	21	48	9/27	1.3	32	1.2		
AVERAGE	33.0	20.1	45.9		1.2	30	1.1	39.3	37.8
L.S.D. 10% LEVEL	4.2	3.2	5.1		0.2	2	0.2		
L.S.D. 30% LEVEL	2.7	2.0	3.2		0.1	2	0.1		
STD ER OF TRT MN	1.3	1.4	2.1		0.1	1	0.1	3.6	2.6

Region VI: Carbondale (CA) and Dixon Springs (DS) (30-inch row spacing)

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(CA)	(DS)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
MATURITY GROUP III									
CARGILL									
397	38	22	55	10/05	1.8	29	1.0		
CIBA-GEIGY SEED									
FUNK'S G 3344	39	21	57	9/30	1.7	28	1.0		
FUNK'S G 3375	43	26	60	10/03	1.7	28	1.0		
FUNK'S G 3385	41	20	62	10/03	1.6	27	1.0		
FUNK'S G 3388	40	22	59	10/06	1.5	27	1.0	46.8	
GROWMARK									
HS 3699	43	28	58	10/03	2.0	30	1.0		
HS 3833	49	31	66	10/07	2.0	27	1.0	55.4	
MERSCHMAN SEEDS									
ROOSEVELT	41	25	56	10/03	1.9	27	1.0		
MILES SEED CO.									
ISAAC	41	18	63	10/07	1.6	29	1.0	48.7	
PIONEER III-BRED INTERN.									
9381	39	17	60	10/03	1.5	24	1.0		
9391	41	24	59	10/01	1.8	29	1.0	46.7	47.6
PUBLIC VARIETY									
CARTTER	35	17	53	9/29	2.2	26	1.0	40.8	43.3
CHAMBERLAIN	38	23	54	10/04	2.7	30	1.0	46.2	45.6
EDISON	41	20	62	10/03	1.4	26	1.0		
FAYETTE	39	26	53	10/05	2.1	31	1.0	47.2	
HARPER 87	39	18	59	10/03	1.6	26	1.0	46.3	45.7
HOBBIT 87	34	10	57	10/04	1.0	14	1.0	40.4	38.4
IL-2	38	21	55	10/02	1.2	16	1.0		
KUNITZ	35	19	51	9/29	2.1	29	1.0		
LINFORD	41	27	54	10/05	2.6	32	1.0	48.6	
PELLA 86	40	21	60	10/02	1.8	27	1.0	44.9	44.4
RESNIK	38	21	56	10/01	1.5	25	1.0	43.2	44.2
SHERMAN	36	19	53	9/29	2.3	22	1.0	45.6	46.5
WILLIAMS 82	37	22	53	10/05	2.1	31	1.0	46.9	46.3
RIDGWAY SEED CO.									
JADER 3900	42	22	61	10/06	2.0	32	1.0	47.2	
SEDEX									
391	45	29	62	10/05	1.9	28	1.0		
395	43	21	64	10/02	2.1	28	1.0		
TERRA INTERNATIONAL									
CYCLE	43	22	63	10/06	1.7	28	1.0		
VICTORY	41	24	58	10/06	1.8	31	1.0		
TWIN STATES									
9390	44	23	65	10/06	1.5	28	1.0		
AVERAGE	40.2	22.0	58.3		1.8	27	1.0	46.3	44.7
L.S.D. 10% LEVEL	6.0	5.3	6.8		0.3	2			
L.S.D. 30% LEVEL	3.8	3.3	4.3		0.2	2			
STD ER OF TRT MN	1.8	2.2	2.9		0.1	1		3.5	2.7

MATURITY GROUP IV

ASGROW SEED CO.									
A4009	42	21	63	10/07	1.9	28	1.0	44.1	44.2
A4393	46	21	70	10/08	2.0	29	1.0	43.5	45.3
A4595	50	30	70	10/16	2.1	34	1.0	47.6	47.3
A4715	44	22	66	10/16	1.6	30	1.0		
BERGMANN-TAYLOR SEEDS									
BT 401C	37	20	53	10/06	2.3	30	1.0		
BT 409CB	37	18	56	10/10	2.2	33	1.0	40.0	41.3
BT 471	40	24	56	10/12	2.4	31	1.0		

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(CA)	(DS)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
BERGMANN-TAYLOR SEEDS (con't.)									
BT 500C	40	27	53	10/15	2.2	25	1.0	45.6	
CALLAHAN SEEDS									
1410X	42	24	59	10/06	2.1	28	1.0	42.3	
1490X	48	25	71	10/16	2.2	32	1.0		
7510N	50	33	68	10/23	1.9	28	1.0	50.5	51.8
8464	41	26	56	10/16	2.6	30	1.0	44.4	44.5
9455N	42	23	60	10/09	2.0	32	1.0		
9480X	43	26	60	10/10	2.8	32	1.0	45.0	
CARGILL									
437	40	22	59	10/14	1.9	34	1.0		
DEKALB PLANT GENETICS									
CX415	43	22	65	10/11	2.3	31	1.0	44.2	44.1
CX458	44	21	66	10/13	1.7	29	1.0	46.4	46.7
GROWMARK									
HS 4103	44	25	63	10/10	1.5	29	1.0		
HS 4602	40	23	56	10/12	2.2	30	1.0	40.9	
HYPERFORMER SEED CO.									
401	44	25	62	10/14	2.4	36	1.0	43.9	
HB90-400	45	22	67	10/09	2.1	26	1.0		
HB90-472	44	26	62	10/12	2.5	30	1.0		
J M SCHULTZ SEED CO.									
JMS 4109	41	28	55	10/10	2.0	31	1.0		
JMS 4688	42	25	59	10/16	2.6	31	1.0	43.4	45.9
JMS EX4400	45	29	62	10/16	2.3	31	1.0		
JACOB HARTZ SEED CO.									
H4464	42	27	56	10/16	2.5	33	1.0	45.2	
JACQUES SEED CO.									
EX 9043 B	45	26	63	10/14	2.6	34	1.0		
J-499	48	32	64	10/18	2.6	33	1.0	45.4	
MERSCHMAN SEEDS									
ATLANTA II	40	24	56	10/11	2.5	32	1.0		
DALLAS	43	18	68	10/16	2.5	35	1.0		
MILES SEED CO.									
JACOB	42	23	61	10/13	2.3	30	1.0	43.4	
SCX 001	33	18	47	10/12	1.9	30	1.0		
SCX 002	40	23	57	10/14	1.9	34	1.0		
NORTHROP KING CO.									
S44-77	39	21	57	10/08	2.2	33	1.0		
S48-84	47	29	64	10/17	2.9	35	1.0		
PIONEER HI-BRED INTERN.									
9402	38	25	51	10/10	2.1	28	1.0	45.0	44.4
9411	41	22	59	10/07	2.2	30	1.0	41.7	
9442	44	27	61	10/10	1.8	28	1.0	45.6	44.8
9461	47	27	67	10/12	2.1	27	1.0	47.7	
PRINCETON FARMS									
PF 4490	42	34	50	10/10	2.7	33	1.0		
PF 4588	41	20	62	10/10	2.1	30	1.0	43.8	
PF 4884	44	24	65	10/16	2.4	36	1.0	44.7	46.2
PUBLIC VARIETY									
FLYER	38	20	57	10/07	1.9	28	1.0	40.1	42.9
HAMILTON	40	19	60	10/10	2.0	25	1.0	40.7	40.1
PENNYRILE	41	25	58	10/14	1.9	34	1.0	41.3	42.3
PHARAOH	45	28	61	10/20	2.0	25	1.0	47.3	
PYRAMID	40	27	52	10/12	2.3	36	1.0	42.6	44.8
RIPLEY	37	11	62	10/10	1.3	14	1.0	40.9	37.6
SPENCER	41	16	67	10/15	1.8	28	1.0	44.3	44.8
UNION	42	22	62	10/08	2.5	33	1.0	42.3	41.4
RIDGWAY SEED CO.									
JADER 461	39	15	63	10/07	2.2	29	1.0		

Region VI: Carbondale (CA) and Dixon Springs (DS) (30-inch row spacing), continued

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(CA)	(DS)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
RIDGWAY SEED CO. (con't.)									
JADER 467	45	26	65	10/12	2.4	34	1.0		
SEDEX									
456	45	25	64	10/10	2.3	30	1.0		
SOUTHERN STATES COOP									
FFR-464	46	26	65	10/12	2.2	33	1.0		
FFR-499	46	29	63	10/17	2.0	35	1.0		
SS-431	43	21	65	10/16	1.8	29	1.0		
SS-487	49	29	68	10/12	1.7	30	1.0		
STINE SEED FARM									
4150	42	26	58	10/09	2.7	32	1.0		
4880	45	26	64	10/10	2.2	28	1.0		
TERRA INTERNATIONAL									
COMPETITOR	46	29	63	10/16	2.4	36	1.0	44.6	
TRISLER SEED FARMS									
TRISOY 402	42	23	61	10/07	2.1	28	1.0		
TRISOY 475	39	19	59	10/09	2.4	28	1.0	40.5	43.3
TRISOY 477	39	20	58	10/06	2.1	31	1.0	41.8	43.2
UPHOFF SEEDS									
4300	37	16	59	10/09	2.3	34	1.0	36.9	
AVERAGE	42.5	24.1	61.0		2.2	31	1.0	43.6	44.1
L.S.D. 10% LEVEL	7.0	7.4	6.5		0.4	4			
L.S.D. 30% LEVEL	4.4	4.7	4.1		0.2	3			
STD ER OF TRT MN	2.1	3.2	2.8		0.1	1		2.7	2.9

Brand Cultivar or Blend	1990 Results							Average	
	Reg.	(CA)	(DS)	Mat.	Lod	Ht	Sha	2-Yr 3-Yr	
	Yld	Yld	Yld					Yld	Yld
	Bu/A	Bu/A	Bu/A	Date	gng	in	ter	Bu/A	Bu/A
Maturity Group V									
ASGROW SEED CO.									
A5403	42	32	52	10/26	1.9	30	1.0	46.9	50.4
HYPERFORMER SEED CO.									
HB89-132	39	28	50	10/29	2.3	29	1.0		
HB90-501	43	33	52	10/22	1.8	27	1.0		
HB90-531	40	33	47	10/20	2.5	26	1.0		
J M SCHULTZ SEED CO.									
JMS 5109	39	32	47	10/22	2.2	28	1.0		
JACOB HARTZ SEED CO.									
H5240	44	40	48	10/26	3.0	30	1.0	49.6	
HARTZ 5164	40	39	41	10/30	2.8	32	1.0	44.9	50.2
MILES SEED CO.									
GOLIATH	40	34	45	10/29	2.3	30	1.0		
NORTHROP KING CO.									
COKER 425	41	34	48	10/22	2.0	25	1.0	44.7	46.5
COKER 6955	41	37	45	10/29	2.3	30	1.0		
PIONEER HI-BRED INTERN.									
9531	40	31	48	10/22	1.9	27	1.0	44.8	47.6
RIDGWAY SEED CO.									
JADER 5286	40	36	45	10/29	3.2	33	1.0	46.2	
JADER 586	42	38	45	10/29	2.8	30	1.0	46.6	
SEDEX									
540	39	29	48	10/26	1.3	28	1.0		
SOUTHERN STATES COOP									
FFR-561	40	29	51	10/29	2.2	28	1.0		
SS-516	41	31	52	10/26	1.7	26	1.0		
AVERAGE	39.9	32.0	47.8		2.2	28	1.0	46.3	48.7
L.S.D. 10% LEVEL	6.2	7.0	5.6		0.4	4			
L.S.D. 30% LEVEL	3.9	4.3	3.5		0.3	2			
STD ER OF TRT MN	1.9	2.9	2.3		0.1	1		1.7	1.9

Dwight (7-inch row spacing)

Brand Cultivar or Blend	1990 Results						Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-		Yld.	Yld.
	Bu/A	Date	ing	(in)	ter		Bu/A	Bu/A
Maturity Group I								
ASGROW SEED CO.								
A1929	64	9/21	1.7	33	1.0		62.2	
DERAEDT SEEDS								
SUPER SELECT 1860	62	9/26	1.5	32	1.0			
PUBLIC VARIETY								
BELL	58	9/24	2.7	33	1.0		57.6	
BSR 101	61	9/24	2.4	36	1.0		62.0	44.5
TERRA INTERNATIONAL								
RUNNER III	58	9/23	1.8	33	1.0			

Maturity Group II

ASGROW SEED CO.								
A2234	61	9/24	1.8	35	1.0		63.4	47.6
A2396	65	9/24	1.5	37	1.0			
A2543	63	9/24	1.5	31	1.0		61.8	

Brand Cultivar or Blend	1990 Results						Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-		Yld.	Yld.
	Bu/A	Date	ing	(in)	ter		Bu/A	Bu/A
ATLAS S-BRAND								
A-251	72	9/25	1.7	38	1.0		71.9	
S-270	66	9/26	1.3	37	1.0		65.5	
S-46H	69	9/25	2.1	34	1.0		67.4	52.4
CALLAHAN SEEDS								
1288X	63	9/19	2.2	34	1.0			
8252	61	9/24	2.9	36	1.0		63.9	
9270X	64	9/25	1.9	38	1.0		65.6	
CHALLENGER SEED CO.								
CSB 667	66	9/25	2.9	38	1.0		65.4	50.7
CSV 267	63	9/25	2.5	39	1.0			
CUSTOM FARM SEED								
CFS 231	54	9/22	2.9	37	1.0		58.0	46.6
DAIRYLAND SEED CO.								
DSR-247	60	9/20	2.6	39	1.0			
DSR-262	62	9/26	2.9	37	1.0		67.5	54.1
DSR-270	68	9/26	1.7	32	1.0		64.1	47.1
DERAEDT SEEDS								
SUPER SELECT 2155	67	9/25	2.0	37	1.0			

Dwight (7-inch row spacing), continued

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
GOLDEN HARVEST							
H-1289	62	9/26	3.0	38	1.0		
X-256	65	9/26	2.1	41	1.0		
GREATER AMERICAN SEED							
GA 2290	63	9/22	1.8	35	1.0		
GRIFFITH SEED CO.							
PL 2010	63	9/26	1.8	35	1.0	65.5	
PL 2015	62	9/24	1.7	33	1.0		
PL 2100	68	9/25	1.6	38	1.0		
PL 3257X	70	9/23	2.2	38	1.0		
PL 8216X	58	9/26	1.9	35	1.0		
HENKEL SEEDS							
SUPER SOY 510	54	9/24	2.7	39	1.0		
SUPER SOY 520	69	9/24	1.8	36	1.0		
SUPER SOY 522	62	9/22	2.6	37	1.0		
SUPER SOY 524	67	9/24	1.8	35	1.0		
LYNKS SEEDS							
5245	55	9/24	3.5	37	1.0		
MERSCHMAN SEEDS							
MOHAVE	65	9/26	2.7	37	1.0	63.0	50.1
MUIRHEAD FARMS							
MF 24	64	9/26	1.8	32	1.0	64.8	
MF 265	64	9/26	2.0	36	1.0		
MF 281	60	9/20	3.1	38	1.0	65.4	
MF 299	62	9/22	2.7	37	1.0		
NOBLEBEAR							
NB 2240	57	9/19	3.2	37	1.0		
NB 2890	66	9/22	1.7	35	1.0		
NORTHRUP KING CO.							
S23-12	64	9/26	1.6	40	1.0		
PIONEER HI-BRED INTERN.							
9202	61	9/22	1.6	34	1.0	60.9	47.5
9241	56	9/21	3.1	33	1.0		
9272	61	9/21	2.5	34	1.0	63.0	48.9
9273	67	9/25	1.8	33	1.0		
9292	61	9/25	2.0	34	1.0	59.6	49.7
9293	62	9/25	3.1	33	1.0	61.6	46.5
PUBLIC VARIETY							
ARCHER	60	9/24	2.6	40	1.0		
BSR 201	59	9/21	3.7	37	1.0	58.4	46.6
BURLISON	63	9/25	2.3	34	1.0	64.1	51.5
CENTURY 84	61	9/20	1.8	40	1.0	60.0	44.0
CHAPMAN	58	9/25	2.5	38	1.0		
CONRAD	61	9/26	2.6	39	1.0	63.4	45.8
ELGIN 87	58	9/26	3.5	35	1.0	56.4	43.8
HACK	60	9/24	2.0	32	1.0	60.3	45.9
IL-1	44	9/25	2.3	28	1.0		
JACK	60	9/25	3.1	49	1.0	63.8	
KENWOOD	55	9/24	3.0	37	1.0	57.2	
PRESTON	55	9/24	2.8	39	1.0	58.9	47.5
SIEBEN HYBRIDS							
SS 225	58	9/18	3.2	39	1.0		
SS 239	55	9/23	2.5	40	1.0		
SS 242	60	9/24	2.4	42	1.0		
SS 275	66	9/26	1.9	36	1.0		

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
SIEBEN HYBRIDS (con't)							
SS 285	62	9/26	2.8	37	1.0		
TERRA INTERNATIONAL							
MEDALIST	67	9/25	3.2	36	1.0	64.0	49.7
SPRINT	66	9/25	2.7	36	1.0	59.9	45.9
WINNER	62	9/24	3.4	38	1.0		
WILKEN SEED GRAINS							
2390	53	9/21	2.6	36	1.0	53.5	
2560	64	9/26	1.9	34	1.0	66.5	
2566	68	9/26	1.9	36	1.0		
2570	62	9/26	2.0	36	1.0		
AVERAGE (Grps I-II)	61.9	..	2.3	36	1.0	62.5	47.9
L.S.D. 10% LEVEL	5.4	..	0.5	3	..	..	..
L.S.D. 30% LEVEL	3.4	..	0.3	2	..	..	..
STD ERR OF CULT MN	2.3	..	0.2	1	..	3.7	2.8
MATURITY GROUP III							
GOLDEN HARVEST							
H-1358	61	9/27	1.5	40	1.0		
GRIFFITH SEED CO.							
PL 2250	62	9/24	3.3	39	1.0		
PL 3005	64	9/27	2.7	40	1.0	61.2	
PL 3140	63	9/27	1.5	42	1.0		
KALTENBERG SEED FARMS							
KB308	65	9/28	2.8	40	1.0		
KB319	60	10/01	2.5	37	1.0		
PIONEER HI-BRED INTERN.							
9302	64	9/20	1.7	38	1.0	64.0	
9303	57	9/27	2.3	35	1.0	60.9	
9341	62	9/28	2.3	40	1.0		
PUBLIC VARIETY							
CARTTER	60	9/28	2.3	39	1.0	61.6	49.2
CHAMBERLAIN	59	10/03	2.7	42	1.0	58.3	47.9
HARPER 87	58	9/28	2.2	39	1.0	57.5	43.0
HOBBIT 87	58	9/30	1.0	26	1.0	63.0	48.7
PELLA 86	58	9/26	2.2	37	1.0	56.2	44.7
RESNIK	65	9/29	2.3	40	1.0	67.7	48.6
SHERMAN	57	9/27	3.5	37	1.0	57.5	41.5
SIEBEN HYBRIDS							
SS 343	60	9/30	2.7	41	1.0		
SS 349	58	9/29	2.0	37	1.0		
TERRA INTERNATIONAL							
FINALIST	59	9/28	2.2	37	1.0		
VICTORY	60	10/05	2.2	42	1.0		
UPHOFF SEEDS							
3100	59	9/30	2.3	35	1.0	63.8	
WILKEN SEED GRAINS							
3407	60	9/28	2.7	37	1.0		
AVERAGE	60.4	..	2.3	38	1.0	61.1	46.2
L.S.D. 10% LEVEL	5.7	..	0.4	3	..	..	..
L.S.D. 30% LEVEL	3.5	..	0.3	2	..	..	..
STD ERR OF CULT MN	2.4	..	0.2	1	..	3.5	3.1

Urbana (7-inch row spacing)

Brand Cultivar or Blend	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
MATURITY GROUP II							
ASGROW SEED CO.							
A2872	63	9/17	1.6	38	1.0		
ATLAS S-BRAND							
S-280	60	9/21	1.2	33	1.0	55.5	
CALLAHAN SEEDS							
1288X	65	9/20	2.0	30	1.0		
8252	62	9/15	2.4	37	1.0		
9270X	66	9/15	1.7	34	1.0		
CHALLENGER SEED CO.							
CSV 267	61	9/22	3.0	36	1.0		
CSV 29	64	9/20	2.5	37	1.0	61.5	52.4
CUSTOM FARM SEED							
CFS 231	62	9/16	2.6	35	1.0	58.1	
CFS 244	57	9/23	3.1	36	1.0		
DAIRYLAND SEED CO.							
DSR-262	64	9/20	2.6	38	1.0		
DSR-290	64	9/17	2.4	37	1.0	58.0	48.8
GRIFFITH SEED CO.							
PL 2015	63	9/19	1.6	36	1.0		
PL 2100	64	9/20	1.2	33	1.0		
PL 8216X	53	9/22	1.9	34	1.0		
HOBLIT SEED CO.							
HB 282	59	9/23	3.1	37	1.0		
J M SCHULTZ SEED CO.							
JMS EX2400	58	9/12	2.4	38	1.0		
JMS EX2700	63	9/24	2.4	41	1.0		
LEWIS HYBRIDS							
282	61	9/22	2.6	36	1.0	58.0	49.9
MERSCHMAN SEEDS							
MOHAVE	65	9/25	2.7	38	1.0	60.2	51.4
NOBLEBEAR							
NB 2890	68	9/24	1.7	33	1.0		
NB 3006	62	9/21	2.3	36	1.0		
PIONEER HI-BRED INTERN.							
9272	59	9/15	1.4	36	1.0	52.3	43.9
9273	69	9/20	1.9	35	1.0		
9292	62	9/16	1.2	37	1.0	58.7	47.9
9293	64	9/22	2.3	33	1.0	61.6	50.3
PUBLIC VARIETY							
ARCHER	57	9/11	2.3	39	1.0		
BSR 201	53	9/24	4.2	38	1.0	52.1	43.6
BURLISON	67	9/21	1.9	37	1.0	59.1	48.8
CENTURY 84	62	9/23	1.5	40	1.0	55.2	45.4
CHAPMAN	66	9/24	1.9	37	1.0		
CONRAD	64	9/17	2.0	37	1.0	56.4	43.9
ELGIN 87	60	9/14	2.5	36	1.0	54.2	43.7
HACK	61	9/15	1.6	37	1.0	51.4	41.4
IL-1	48	9/26	2.2	28	1.0		
JACK	66	9/25	3.3	43	1.0	63.7	
KENWOOD	61	9/14	2.7	40	1.0	56.5	
PRESTON	63	9/23	2.4	40	1.0	58.1	47.9
SIEBEN HYBRIDS							
SS 225	66	9/15	2.2	38	1.0		
SS 239	54	9/25	2.5	43	1.0		
SS 242	62	9/26	1.9	45	1.0		
SS 275	70	9/16	1.6	39	1.0		
SS 285	59	9/23	3.0	39	1.0		

Brand Cultivar or Blend	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
STONE SEED FARMS							
SE-208	61	9/21	3.0	39	1.0		
TERRA INTERNATIONAL							
MEDALIST	65	9/14	3.2	38	1.0	56.1	43.8
SPRINT	61	9/21	2.9	38	1.0	56.0	47.6
WINNER	64	9/15	2.9	38	1.0		
TRISLER SEED FARMS							
TRISOY 221	61	9/23	2.4	35	1.0	56.3	49.7
TRISOY 294	66	9/22	2.9	38	1.0		
TWIN STATES							
9280	62	9/25	1.9	37	1.0		
AVERAGE	62.0	..	2.3	37	1.0	57.1	47.1
L.S.D. 10% LEVEL	5.4	..	0.5	3	..	..	..
L.S.D. 30% LEVEL	3.4	..	0.3	2	..	..	..
STD ERR OF CULT MN	2.3	..	0.2	1	..	3.2	3.3
MATURITY GROUP III							
ASGROW SEED CO.							
A3322	66	9/30	1.8	36	1.0	64.2	
ATLAS S-BRAND							
S-370	65	9/24	2.3	34	1.0	63.9	
S-57A	60	9/26	1.9	37	1.0	62.0	49.8
BROWN SEEDS							
ARISE 341	63	9/26	2.3	35	1.0		
CALLAHAN SEEDS							
1330X	68	9/23	1.4	39	1.0		
1365X	66	9/26	1.4	38	1.0		
9350	69	9/26	2.5	41	1.0	65.0	
CHALLENGER SEED CO.							
CSV 3150	71	9/23	2.3	38	1.0		
CSV 3500	70	9/28	1.9	42	1.0		
CSV 3600	61	9/28	2.0	44	1.0		
CUSTOM FARM SEED							
CFS 315	63	9/25	2.1	36	1.0		
CFS 316	63	9/27	2.4	40	1.0	61.6	
DAIRYLAND SEED CO.							
DSR-304	68	9/26	2.4	37	1.0	60.5	50.6
DSR-317	66	10/01	2.0	43	1.0	65.8	53.6
DSR-333	62	9/26	1.7	38	1.0	64.5	52.7
DSR-373	66	9/27	1.6	42	1.0	63.7	52.7
DEKALB PLANT GENETICS							
CX345	64	9/28	1.9	40	1.0	62.8	50.8
GRIFFITH SEED CO.							
PL 2250	63	9/24	3.0	38	1.0		
PL 3005	65	9/25	2.8	39	1.0		
PL 3140	61	9/27	1.8	39	1.0		
J M SCHULTZ SEED CO.							
JMS EX3400	68	9/28	2.6	36	1.0		
LEWIS HYBRIDS							
367	69	9/28	1.8	42	1.0	68.1	54.5
NOBLEBEAR							
NB 3350	65	9/28	2.2	34	1.0	64.8	54.9
NBX 890-3	64	9/30	1.9	40	1.0		
PIONEER HI-BRED INTERN.							
9302	63	9/21	2.1	37	1.0	57.8	
9303	72	9/23	2.3	34	1.0	65.8	
9341	66	9/26	2.4	37	1.0	64.7	
9361	60	9/27	2.3	39	1.0		

Urbana (7-inch row spacing), continued

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
PIONEER HI-BRED INTERN. (con't)							
9381	63	9/29	2.1	37	1.0		
9391	65	10/02	2.0	43	1.0	62.1	52.2
PUBLIC VARIETY							
CARTTER	64	9/23	2.8	38	1.0	58.0	47.2
CHAMBERLAIN	63	9/29	2.8	41	1.0	63.3	52.5
EDISON	70	9/29	1.6	37	1.0		
HARPER 87	66	9/27	2.0	37	1.0	62.5	50.5
HOBBIT 87	55	9/28	1.0	20	1.0	57.3	46.4
IL-2	44	9/28	2.5	34	1.0		
LINFORD	62	10/02	2.9	49	1.0	58.1	
PELLA 86	65	9/23	2.0	38	1.0	59.7	48.9
RESNIK	68	9/24	1.8	36	1.0	63.7	51.1
SHERMAN	66	9/26	2.7	37	1.0	62.2	50.1
WILLIAMS 82	65	10/03	2.2	45	1.0	60.4	49.3
SIEBEN HYBRIDS							
SS 343	66	9/25	2.7	41	1.0		
SS 349	71	9/28	2.2	37	1.0		
STONE SEED FARMS							
SE-204	64	9/26	2.2	36	1.0	59.7	50.4
SE-305	69	9/26	1.8	41	1.0		
SE-306	63	9/27	1.9	40	1.0	60.3	49.8

Brownstown (7-inch row spacing)

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
MATURITY GROUP III							
ASGROW SEED CO.							
A3733	21	9/26	1.0	21	1.0	38.2	32.7
ATLAS S-BRAND							
S-57A	17	9/19	1.0	20	2.1		
S-62+	16	9/21	1.0	19	1.4	34.9	29.1
BERGMANN-TAYLOR SEEDS							
BT 371	14	9/24	1.0	23	1.4		
BT 379	19	9/26	1.0	23	1.0	34.6	29.2
BT 399C	15	9/26	1.0	20	2.4	30.5	26.5
CHALLENGER SEED CO.							
CSV 3500	10	9/26	1.0	21	2.7		
CSV 3600	20	9/19	1.0	24	1.0		
CSV 3800	12	9/21	1.0	21	3.0		
PIONEER HI-BRED INTERN.							
9301	15	9/14	1.2	21	1.4		
9303	14	9/17	1.0	20	3.0		
9341	14	9/24	1.0	19	2.4		
9381	15	9/19	1.0	18	1.0		
9391	19	9/26	1.0	22	1.0	37.8	32.6
PUBLIC VARIETY							
CARTTER	7	9/17	1.0	19	3.0	20.8	18.9
CHAMBERLAIN	10	9/19	1.0	20	2.0	27.1	23.9
EDISON	13	9/21	1.0	21	1.0		
FAYETTE	15	9/26	1.0	23	2.4	31.9	27.8
HARPER 87	10	9/19	1.0	18	2.0	27.4	22.7
HOBBIT 87	9	9/21	1.0	14	1.1	23.8	18.7

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
STONE SEED FARMS (con't)							
SE-310	69	9/29	1.6	44	1.0		
TERRA INTERNATIONAL							
CYCLE	64	9/30	2.3	43	1.0	62.0	51.2
FINALIST	69	9/27	2.2	37	1.0		
VICTORY	75	9/29	2.0	42	1.0		
TWIN STATES							
9330	69	9/29	1.9	39	1.0		
9380	66	9/27	1.9	44	1.0		
UPHOFF SEEDS							
3100	67	9/26	2.3	37	1.0	60.6	
VORIS SEEDS							
V319	61	9/25	2.6	43	1.0		
V357	68	9/27	2.3	39	1.0	65.5	
V379	61	9/28	1.9	46	1.0	61.3	
WILKEN SEED GRAINS							
3407	65	9/23	2.7	35	1.0		
AVERAGE	65.0		2.2	39	1.0	62.3	51.0
L.S.D. 10% LEVEL	6.4		0.6	4			
L.S.D. 30% LEVEL	4.0		0.3	2			
STD ERR OF CULT MN	2.7		0.2	2		2.7	2.2

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
MATURITY GROUP IV							
TERRA INTERNATIONAL							
CYCLE	18	9/24	1.0	22	1.1	36.6	
FINALIST	16	9/21	1.0	21	1.1		
VICTORY	19	9/19	1.0	24	1.4		
TWIN STATES							
9390	15	9/24	1.0	22	2.1		
UPHOFF SEEDS							
3600	16	9/17	1.0	22	1.4		
WILDY SEED							
WS 3508	13	9/24	1.0	23	2.4	29.0	
WS 3588	22	9/21	1.0	24	1.8		
WS 3838	18	9/26	1.0	22	1.1		
AVERAGE	14.5		1.0	21	1.8	30.6	25.5
L S D 10% LEVEL	5.7		0.1	2	0.6		
L S D 30% LEVEL	3.6		0.0	1	0.4		
STD ERR OF CULT MN	2.4		0.0	1	0.2	5.0	4.5

MATURITY GROUP IV

BELLEVILLE SEED HOUSE							
BSH 420	14	9/26	1.0	20	1.0	33.1	

Brownstown (7-inch row spacing), continued

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
BERGMANN-TAYLOR SEEDS							
BT 401C	17	9/26	1.0	23	1.0		
BT 409CB	17	9/24	1.0	24	1.0		
BROWN SEEDS							
ARISE 400	16	9/26	1.0	23	1.7		
PIONEER HI-BRED INTERN.							
9411	21	9/24	1.0	25	1.0	38.7	
9442	18	9/28	1.0	20	1.0	36.3	31.8
9461	9	9/26	1.0	19	1.0	33.7	
PUBLIC VARIETY							
FLYER	11	9/24	1.0	23	1.0	30.1	27.1
HAMILTON	16	9/21	1.0	20	1.0	34.3	29.8

Kilbourne, Irrigated (30-inch row spacing)

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
MATURITY GROUP II							
PUBLIC VARIETY							
BSR 201	51	9/16	2.8	31	1.0	30.1	31.0
BURLISON	57	9/14	1.7	32	1.0	38.7	41.2
CENTURY 84	58	9/16	1.5	35	1.0	32.3	33.2
CONRAD	50	9/12	1.3	29	1.0	29.1	36.4
ELGIN 87	52	9/12	2.7	31	1.0	32.2	35.6
HACK	53	9/12	1.3	26	1.0	30.0	32.2
JACK	63	9/23	3.0	40	1.0	35.0	
KENWOOD	52	9/14	2.2	28	1.0	31.1	
PRESTON	60	9/14	2.2	36	1.0	37.8	39.0
AVERAGE	55.1	..	2.1	32	1.0	32.9	35.5
L.S.D. 10% LEVEL	8.0	..	0.8	5	..	..	..
L.S.D. 30% LEVEL	4.9	..	0.5	3	..	..	..
STD ERR OF CULT MN	3.2	..	0.3	2	..	3.5	3.7

MATURITY GROUP III

GROWMARK							
HS 3411	63	9/25	2.6	40	1.0		
J M SCHULTZ SEED CO.							
JMS 3309	53	9/23	1.4	39	1.0		
KAISER ESTECH							
KE 131425	61	9/27	2.0	33	1.0		
KE 298	55	9/23	1.5	31	1.0	41.1	

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
PUBLIC VARIETY (con't)							
PHARAOH	23	10/05	1.0	24	1.0	44.3	
RIPLEY	11	9/28	1.0	15	1.0	31.5	28.1
SPENCER	12	9/26	1.0	21	1.3	34.4	29.4
UNION	14	9/26	1.0	24	1.0	34.7	30.2
TERRA INTERNATIONAL							
COMPETITOR	16	10/03	1.0	23	1.0	40.7	
AVERAGE	15.9	..	1.0	22	1.1	35.6	29.4
L S D 10% LEVEL	5.9	..	..	3	0.3	..	..
L S D 30% LEVEL	3.7	..	..	2	0.2	..	..
STD ERR OF CULT MN	2.5	..	..	1	0.1	4.2	1.7

Brand	1990 Results					Average	
	Yld	Mat.	Lodg-	Hgt.	Shat-	Yld.	Yld.
Cultivar or Blend	Bu/A	Date	ing	(in)	ter	Bu/A	Bu/A
KAISER ESTECH (con't)							
KE 358	56	9/25	1.8	39	1.0	42.5	
LEWIS HYBRIDS							
367	60	9/27	1.5	38	1.0	41.7	46.3
NORTHROP KING CO.							
S31-33	49	9/19	2.3	33	1.0	31.8	37.9
S36-36	60	9/23	1.7	33	1.0		
PIONEER HI-BRED INTERN.							
9341	65	9/25	1.8	32	1.0	43.3	
9361	49	9/25	1.4	30	1.0	31.3	38.0
9381	66	9/25	1.4	32	1.0		
9391	50	9/27	1.3	33	1.0	37.9	39.6
PUBLIC VARIETY							
CARTTER	53	9/16	2.6	32	1.0	34.3	39.4
CHAMBERLAIN	56	9/25	2.0	38	1.0	34.3	37.2
PELLA 86	51	9/16	1.7	27	1.0	30.9	35.7
RESNIK	59	9/23	1.2	31	1.0	42.8	41.4
SHERMAN	61	9/23	2.7	34	1.0	40.7	42.9
TWIN STATES							
9390	58	9/21	1.2	33	1.0		
WILSON HYBRIDS							
3165	53	9/23	1.7	29	1.0		
3300	63	9/27	1.3	34	1.0		
AVERAGE	57.2	..	1.8	34	1.0	37.7	39.8
L.S.D. 10% LEVEL	10.0	..	0.7	6	..	..	..
L.S.D. 30% LEVEL	6.2	..	0.5	4	..	..	..
STD ERR OF CULT MN	4.1	..	0.3	2	..	4.9	3.2

